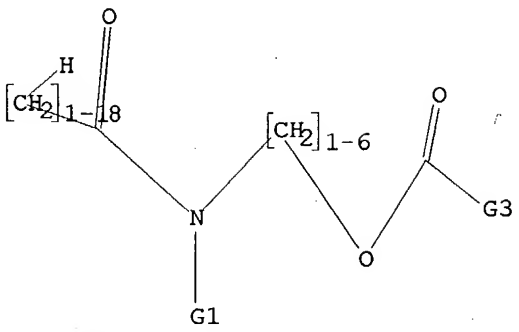


G1 H,Me,Et,n-Pr,i-Pr,n-Bu,i-Bu,s-Bu,t-Bu

G2 Me,Et,n-Pr,i-Pr,n-Bu,i-Bu,s-Bu,t-Bu

G3 O,N,CH2,Cy

Structure attributes must be viewed using STN Express query preparation.

```
=> s l9
SAMPLE SEARCH INITIATED 13:52:54 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -  11706 TO ITERATE

  8.5% PROCESSED    1000 ITERATIONS                                3 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:       227640 TO   240600
PROJECTED ANSWERS:             347 TO     1057

L10           3 SEA SSS SAM L9

=> file caplus
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                    11.34      11.55

FILE 'CAPLUS' ENTERED AT 13:53:04 ON 27 JUN 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)
```



```
FILE COVERS 1907 - 27 Jun 2004  VOL 141 ISS 1
FILE LAST UPDATED: 25 Jun 2004  (20040625/ED)
```

This file contains CAS Registry Numbers for easy and accurate substance identification.

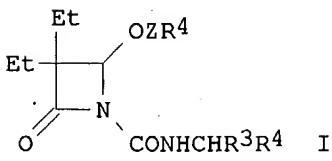
=> s l10
L11 5 L10

=> d l11 1-5 ibib abs hitstr

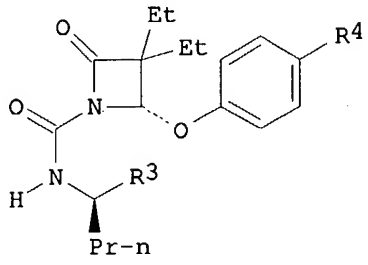
L11 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1998:289523 CAPLUS
DOCUMENT NUMBER: 129:4570
TITLE: Preparation of 4-(1-carbamoyl-4-oxo-2-azetidinyloxy)benzamides and analogs as elastase inhibitors
INVENTOR(S): Doherty, James; Dorn, Conrad; Durette, Philippe; Finke, Paul; Maccoss, Malcolm; Mills, Sander; Shah, Shrenik; Sahoo, Soumya; Hagmann, William; Hale, Jeffrey; Lanza, Thomas
PATENT ASSIGNEE(S): Merck and Co., Inc., USA
SOURCE: U.S., 33 pp., Cont. of U.S. Ser. No. 416,771, abandoned.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5747485	A	19980505	US 1997-848076	19970605
CN 1206004	A	19990127	CN 1998-109505	19980529

PRIORITY APPLN. INFO.: US 1995-416771 B1 19950413
OTHER SOURCE(S): MARPAT 129:4570
GI



I



II

AB Title compds. [I; R = alkyl; R1 = (alkoxy)alkyl; R2 = H, (hydroxy)alkyl, alkenyl, haloalkyl, alkoxyalkyl; R3 = (un)substituted Ph; R4 = QCOYNR7R8 or Q = CO2Rx; Q = bond or CR5R6; R5,R6 = H or alkyl; R7,R8 = H, (un)substituted alkyl, alkanoyl, (un)substituted Ph, etc.; Rx = CO2H, Z1CO2CH2Ph, Z1CO2CMe3; Y = Z2(CHR12)nCR10R11; Z = (un)substituted phenylene; Z1 = alkylene; Z2 = O or NR9; R9 = H, (alkoxy)alkyl, phenyl(alkyl), pyridyl(alkyl); R10,R11 = H, (alkoxy)alkyl, aryl; R10R11 = O; R12 = H or alkyl; n = 1-5] were prepared Thus, azetinidinyloxybenzoic acid II (R3 = 4-MeC6H4)(III; R4 = CO2H) was esterified by BrCH2CO2CMe3 and the product amidated by HN(CH2CH2OH)2 to give III [R4 = CON(CH2CH2OH)2].

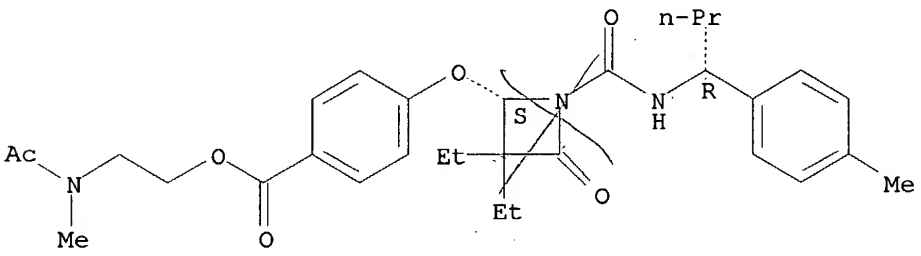
Data for biol. activity of I were given.

IT **157343-06-1P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of 4-(1-carbamoyl-4-oxo-2-azetinidinyloxy)benzamides and analogs as elastase inhibitors)

RN 157343-06-1 CAPLUS

CN Benzoic acid, 4-[[(2S)-3,3-diethyl-1-[[[(1R)-1-(4-methylphenyl)butyl]amino]carbonyl]-4-oxo-2-azetidinyl]oxy]-, 2-(acetylmethylamino)ethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 62 THERE ARE 62 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

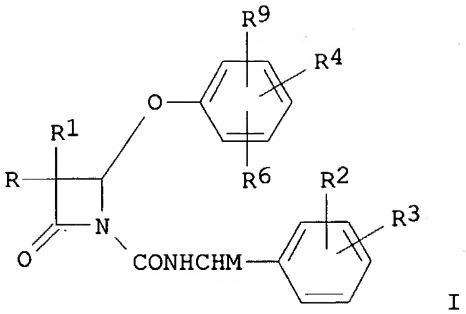
L11 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1995:995041 CAPLUS
DOCUMENT NUMBER: 124:117073
TITLE: Preparation and formulation of N-benzylaminoacyl-4-phenoxyazetidinones for treatment of lung disease (cystic fibrosis).
INVENTOR(S): Davies, Philip
PATENT ASSIGNEE(S): Merck and Co., Inc., USA
SOURCE: PCT Int. Appl., 97 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9524207	A1	19950914	WO 1995-US2938	19950307
W: AM, AU, BB, BG, BR, BY, CA, CN, CZ, EE, FI, GE, HU, JP, KG, KR, KZ, LK, LR, LT, LV, MD, MG, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TJ, TT, UA, US, UZ				
RW: KE, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
CA 2184385	AA	19950914	CA 1995-2184385	19950307
AU 9520994	A1	19950925	AU 1995-20994	19950307
AU 686780	B2	19980212		
EP 755262	A1	19970129	EP 1995-913618	19950307
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE				
JP 09510212	T2	19971014	JP 1995-523641	19950307

PRIORITY APPLN. INFO.: US 1994-212420 19940311
WO 1995-US2938 19950307

OTHER SOURCE(S): MARPAT 124:117073
GI



I

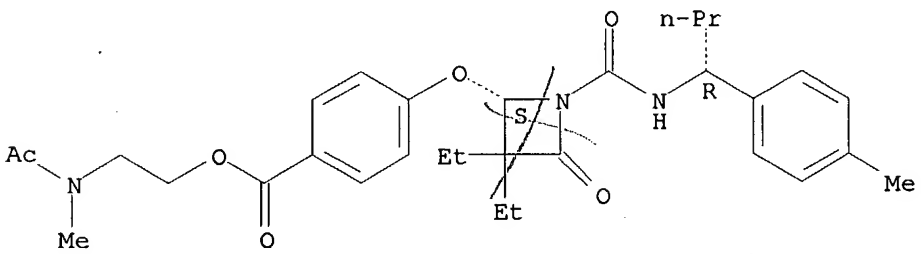
AB A pharmaceutical composition comprising a therapeutically effective, nontoxic amount of an (F)-actin shortening protein, a therapeutically effective amount of an elastase inhibitor, and a pharmaceutically acceptable carrier is claimed. More specifically, the protein is gelsolin and the elastase inhibitor is a title compound [I; R = alkyl; R1 = alkyl, alkoxyalkyl; M = H, alkyl, hydroxyalkyl, haloalkyl, alkenyl, alkoxyalkyl; Ra, Rb = H; R2, R3 = H, alkyl, halo, alkoxy; R2R3 = atoms to form a methylenedioxy group, furan ring; R4 = QCOYNR7R8; Q = bond; Y = NR9(CHR12)nCR10R11; R9-R12 = H, alkyl; R7, R8 = H, alkyl, alkoxyalkyl, hydroxyalkyl; n = 1-5; R8R9 = atoms to form a mono- or disubstituted heterocycle]. Compns. containing [S-(R*,S*)]-2-[4-[[(4-methyl)piperazin-1-yl]carbonyl]phenoxy]-3,3-diethyl-N-[1-(3,4-methylenedioxyphenyl)butyl]-4-oxo-1-azetidinecarboxamide are claimed, as is a method for treating a patient with lung disease with the claimed compns. with amts. sufficient to return lung function to 75-90% of normal as measured by FEV1.

IT **157343-06-1P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation and formulation of N-benzylaminoacyl-4-phenoxyazetidinones with gelsolin for treatment of lung disease)

RN 157343-06-1 CAPLUS

CN Benzoic acid, 4-[[(2S)-3,3-diethyl-1-[[[(1R)-1-(4-methylphenyl)butyl]amino]carbonyl]-4-oxo-2-azetidinyl]oxy]-, 2-(acetylmethylamino)ethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

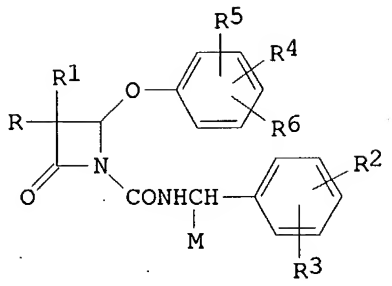


L11 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1994:700749 CAPLUS
DOCUMENT NUMBER: 121:300749
TITLE: Substituted azetidinones as antiinflammatory and antidegenerative agents
INVENTOR(S): Doherty, James B.; Finke, Paul E.; Dorn, Conrad P.; Maccoss, Malcolm; Durette, Philippe L.; Mills, Sander G.; Shah, Shrenik K.; Lanza, Thomas J.; Sahoo, Soumya P.; et al.
PATENT ASSIGNEE(S): Merck and Co., Inc., USA
SOURCE: Eur. Pat. Appl., 81 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

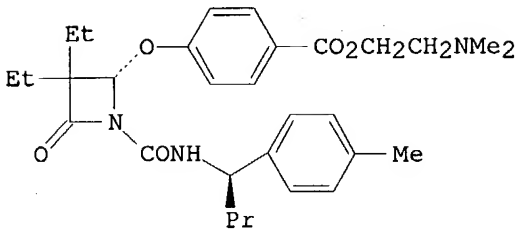
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 595557	A1	19940504	EP 1993-308421	19931022
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE				
CA 2108584	AA	19940428	CA 1993-2108584	19931018
CA 2108584	C	19981124		
IL 107321	A1	19980816	IL 1993-107321	19931019
WO 9410142	A1	19940511	WO 1993-US10268	19931026
W: BB, BG, BR, BY, CZ, FI, HU, KR, KZ, LK, LV, MG, MN, MW, NO, NZ, PL, RO, RU, SD, SK, UA, US, UZ				
RW: BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9350283	A1	19940512	AU 1993-50283	19931026
AU 663806	B2	19951019		
CN 1090272	A	19940803	CN 1993-119648	19931026
CN 1043884	B	19990630		
ZA 9307949	A	19940902	ZA 1993-7949	19931026
HU 72084	A2	19960328	HU 1995-1184	19931026
RU 2148056	C1	20000427	RU 1995-109936	19931026
JP 06263723	A2	19940920	JP 1993-292692	19931027
JP 08002868	B4	19960117		
US 5591737	A	19970107	US 1993-168903	19931216
FI 9501992	A	19950426	FI 1995-1992	19950426
NO 9501593	A	19950623	NO 1995-1593	19950426

PRIORITY APPLN. INFO.:
US 1992-966800 A 19921027
US 1992-991838 A 19921217
WO 1993-US10268 W 19931026

OTHER SOURCE(S): MARPAT 121:300749
GI



I



II

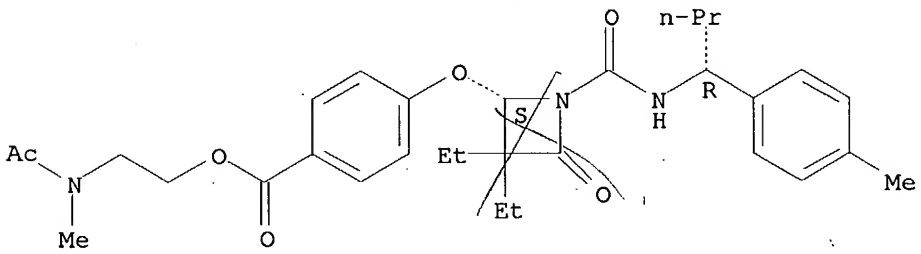
AB The title compound (I; M = H, (un)substituted C1-6 alkyl, C1-6 alkenyl, etc.; R = C1-6 alkyl; R1 = C1-6 alkyl, alkoxyalkyl; R2, R3 = H, C1-6 alkyl, halogen, CO2H, C1-6 alkoxy, Ph, CN, etc.; R4 = (un)substituted carbonyl-containing substituent; R5, R6 = H, C1-6 alkyl, CO2H, C1-6 alkoxy, Ph, OH, etc.), which are potent inhibitors of human leukocyte elastase, useful as antiinflammatory agents, are prepared Thus, azetidinone II was prepared and demonstrated a second-order rate constant per mol per s for inactivation of elastase of 1,566,000.

IT **157343-06-1P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as anti-inflammatory agent and inhibitor of human leukocyte elastase)

RN 157343-06-1 CAPLUS

CN Benzoic acid, 4-[[(2S)-3,3-diethyl-1-[[[(1R)-1-(4-methylphenyl)butyl]amino]carbonyl]-4-oxo-2-azetidinyl]oxy]-, 2-(acetylmethylamino)ethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L11 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1994:79454 CAPLUS

DOCUMENT NUMBER: 120:79454

TITLE: On the mechanism of the esterification of a beta-hydroxyalkylamide with a carboxylic acid

AUTHOR(S): Stanssens, Dirk; Hermanns, Ralph; Wories, Herman

CORPORATE SOURCE: DSM Res., Geleen, 6160 MD, Neth.

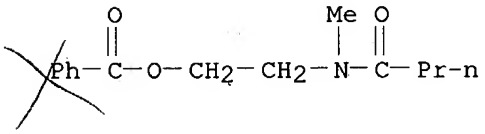
10/030,061

SOURCE: Proc. - Int. Conf. Org. Coat. Sci. Technol., 18th (1992), 435-47. Int. Conf. Org. Coag. Sci. Technol.: New Paltz, N. Y.
CODEN: 59BGAF
DOCUMENT TYPE: Conference
LANGUAGE: English

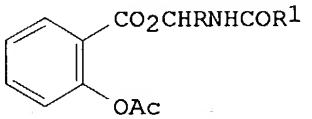
AB A β-hydroxyalkylamide reacts with a carboxylic acid to form an ester much faster than a normal alc. This reaction cannot be seen as a normal esterification, because it cannot be catalyzed by acids or bases. Model compds. were prepared for which calibration curves were then obtained by means of UV spectroscopy. A technique was developed for separating the starting materials and the expected reaction products by HPLC. In this way, quant. and qual. information about the reaction mixts. could be obtained as a function of time. The aforementioned method revealed the existence of an intermediate oxazolinium cation. The formation of this compound plays a key role in the esterification. Besides the expected ester and the intermediate, various other reaction products were determined All of the reaction products could be obtained in a pure state with the aid of preparative HPLC. The structures of the compds. were then studied by 1H-NMR spectrometry. A reaction mechanism was proposed by which all the exptl. data can be explained.

IT **152656-53-6P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as models for curing of coatings)

RN 152656-53-6 CAPLUS
CN Butanamide, N-[2-(benzoyloxy)ethyl]-N-methyl- (9CI) (CA INDEX NAME)



L11 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1988:479582 CAPLUS
DOCUMENT NUMBER: 109:79582
TITLE: Aspirin prodrugs: synthesis and hydrolysis of 2-acetoxybenzoate esters of various N-(hydroxyalkyl)amides
AUTHOR(S): Bundgaard, Hans; Nielsen, Niels Moerk; Buur, Anders
CORPORATE SOURCE: Dep. Pharm. Chem., R. Dan. Sch. Pharm., Copenhagen, DK-2100, Den.
SOURCE: International Journal of Pharmaceutics (1988), 44(1-3), 151-8
CODEN: IJPHDE; ISSN: 0378-5173
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



I, R=H, R^1=Me
II, R=H, R^1=Ph
III, R=CO_2CH_2Ph, R^1=Ph

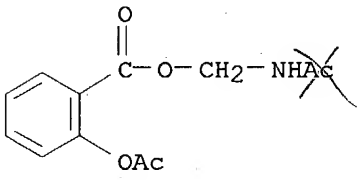
AB Three new esters (I-III) of aspirin were synthesized and evaluated in vitro as potential prodrug forms of aspirin with the aim of depressing the

gastrotoxicity of the drug by temporarily masking the carboxylic acid function. The esters all undergo a facile hydrolysis in aqueous solution of pH 0-8 with a quant. regeneration of aspirin. The compds. were very easily cleaved at pH 7.4 but were more stable at lower pH values. Due to the great lability at pH 7.4 the compds. were also cleaved quant. or predominantly to aspirin in the presence of human plasma rather than to the corresponding salicylate esters and hence salicylic acid.

IT **115695-32-4P**, N-(O-Acetylsalicyloyloxymethyl)acetamide
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and hydrolysis of, as aspirin prodrug)

RN 115695-32-4 CAPLUS

CN Benzoic acid, 2-(acetyloxy)-, (acetylamino)methyl ester (9CI) (CA INDEX NAME)



=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	25.10	36.65

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-3.47	-3.47

FILE 'REGISTRY' ENTERED AT 13:54:38 ON 27 JUN 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 25 JUN 2004 HIGHEST RN 699535-47-2
DICTIONARY FILE UPDATES: 25 JUN 2004 HIGHEST RN 699535-47-2

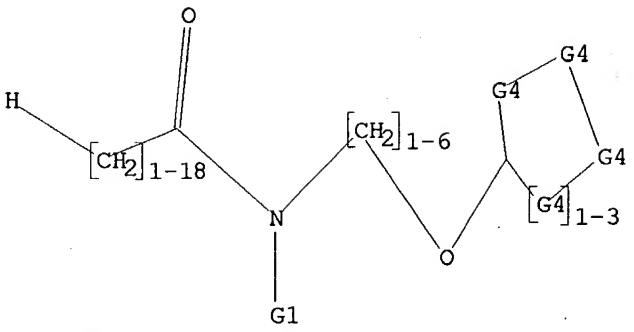
TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2004

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=>
Uploading C:\Program Files\Stnexp\Queries\030061y.str



G1 H,Me,Et,n-Pr,i-Pr,n-Bu,i-Bu,s-Bu,t-Bu

G2 Me,Et,n-Pr,i-Pr,n-Bu,i-Bu,s-Bu,t-Bu

G3 O,N,CH2,Cy

G4 C,O,S,N

Structure attributes must be viewed using STN Express query preparation.

=> s l14
SAMPLE SEARCH INITIATED 14:02:02 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 14406 TO ITERATE

6.9% PROCESSED 1000 ITERATIONS 2 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 280934 TO 295306
PROJECTED ANSWERS: 254 TO 898

L15 2 SEA SSS SAM L14

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	5.46	42.11

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-3.47

FILE 'CAPLUS' ENTERED AT 14:02:13 ON 27 JUN 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1907 - 27 Jun 2004 VOL 141 ISS 1
FILE LAST UPDATED: 25 Jun 2004 (20040625/ED)

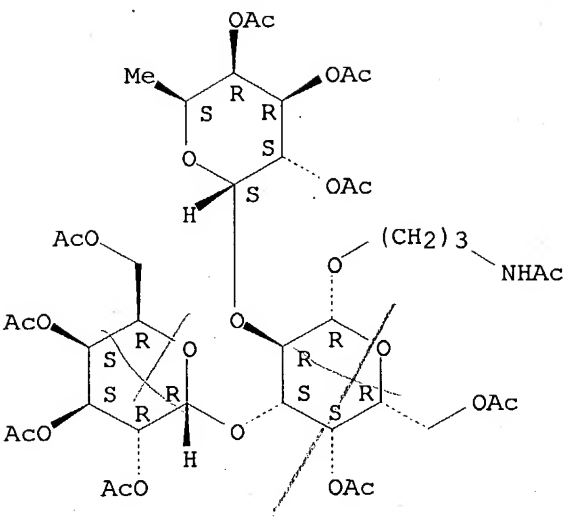
This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l15
L16 2 L15

=> d l16 1-2 ibib abs hitstr

L16 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2000:229159 CAPLUS
DOCUMENT NUMBER: 133:150792
TITLE: Mild elimination of a glycosidically linked -OCH2CH2CH2NH2 spacer arm
AUTHOR(S): Shipova, Ekaterina V.; Bovin, Nikolai V.
CORPORATE SOURCE: M.M.Shemyakin-Yu.A.Ovchinnikov Institute of Bioorganic Chemistry, Russian Academy of Sciences, Moscow, 117871, Russia
SOURCE: Mendeleev Communications (2000), (2), 63-64
CODEN: MENCEX; ISSN: 0959-9436
PUBLISHER: Russian Academy of Sciences
DOCUMENT TYPE: Journal
LANGUAGE: English
AB The spacer arm -OCH2CH2CH2NH2 of complex oligosaccharides can be removed by oxidative deamination followed by alkaline β-elimination.
IT **287194-79-0P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(mild elimination of glycosidically linked aminopropyl spacer arm from blood-group trisaccharides)
RN 287194-79-0 CAPLUS
CN Acetamide, N-[3-[(O-2,3,4,6-tetra-O-acetyl-α-D-galactopyranosyl-(1→3)-O-[2,3,4-tri-O-acetyl-6-deoxy-α-D-galactopyranosyl-(1→2)]-4,6-di-O-acetyl-β-D-galactopyranosyl)oxy]propyl]- (9CI)
(CA INDEX NAME)

Absolute stereochemistry.

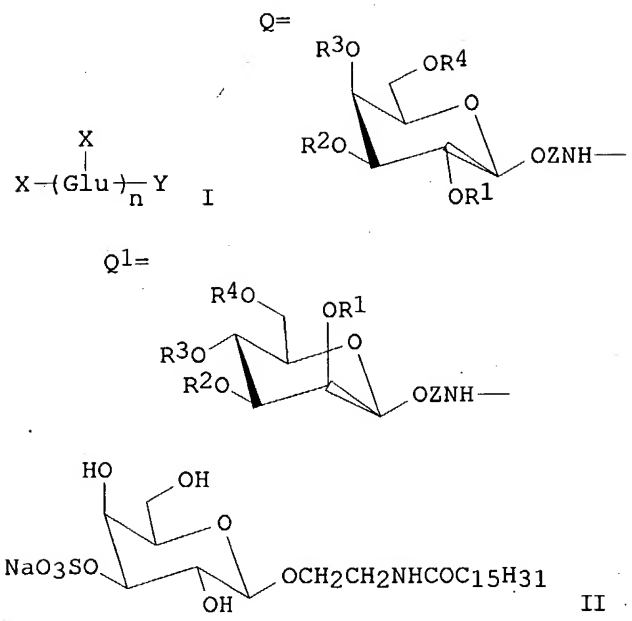


REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1994:8924 CAPLUS
DOCUMENT NUMBER: 120:8924
TITLE: Preparation of acidic glycolipids for pharmaceutical microparticle carriers such as liposomes
INVENTOR(S): Morikawa, Yasuri; Yamauchi, Hitoshi; Yano, Toshiro
PATENT ASSIGNEE(S): Dei Dei Esu Kenkyusho Kk, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 40 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 05186491	A2	19930727	JP 1991-259647	19910911
JP 07110872	B4	19951129		

PRIORITY APPLN. INFO.: JP 1990-254706 19900925
OTHER SOURCE(S): MARPAT 120:8924
GI



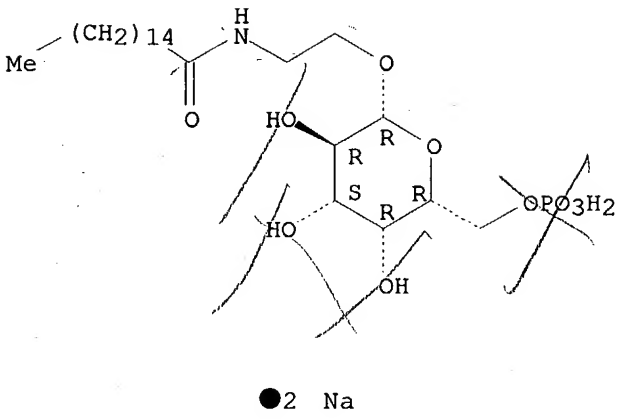
AB Acidic glycolipids [I; X = Q, Q1; R1 - R4 = H, SO3Q, PO3Q2 (Q = H, alkali or alkaline earth metal, NH4), provided that ≥1 of R1 - R4 = SO3Q or PO3Q2 and the other(s) = H; Z = C2-8 alkylene; Glu = glutamic acid residue; n = 0-2; Y = CmH2m+1CO; m = 11-19], which are pharmaceutical microparticle carriers not readily trapped by endothelial cell systems, e.g. liver and spleen, and are capable of maintaining serum drug concentration for a long period of time and increasing drug delivery into cancer tissues, are prepared Thus, glycosidation of 2,3,4,6-tetra-O-acetyl-D-galactopyranosyl bromide with 2-adizoethanol in the presence of HgBr2, Hg(CN)2, and mol. sieve 3A in CH2Cl2 gave 2-adizoethyl 2,3,4,6-tetra-O-acetyl-β-D-galactopyranoside which was converted into 2-aminoethyl 2,4,6-tri-O-β-D-galactopyranoside in 6 steps. Amidation of the latter with palmitic acid N-hydroxysuccinimide ester in CH2Cl2 followed by sulfurization with SO3.pyridine complex in DMF and hydrogenolysis over 10% Pd-C in MeOH gave a galactoside (II). A total of 9 I were prepared 3H-inulin-containing liposomes prepared from L-α-dipalmitoylphosphatidylcholine, II, and cholesterol were injected into the jugular vein of rats transplanted with rat breast cancer cells; the concentration of 3H-inulin in blood plasma and the tumor was 335.4 nmol/mL and 261.5 nmol/g tissue, resp., vs. 250.1 and 169.3 nmol/g tissue, resp., for control liposomes prepared from L-α-dipalmitoylphosphatidylcholine, dicetyl phosphate, and cholesterol.

IT **151651-49-9P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, for liposome)

RN 151651-49-9 CAPLUS

CN Hexadecanamide, N-[2-[(6-O-phosphono-β-D-galactopyranosyl)oxy]ethyl]-, disodium salt (9CI) (CA INDEX NAME)

Absolute stereochemistry.



●2 Na

=> file reg
COST IN U.S. DOLLARS

	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	10.39	52.50

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-1.39	-4.86

FILE 'REGISTRY' ENTERED AT 14:03:09 ON 27 JUN 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 25 JUN 2004 HIGHEST RN 699535-47-2
DICTIONARY FILE UPDATES: 25 JUN 2004 HIGHEST RN 699535-47-2

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2004

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

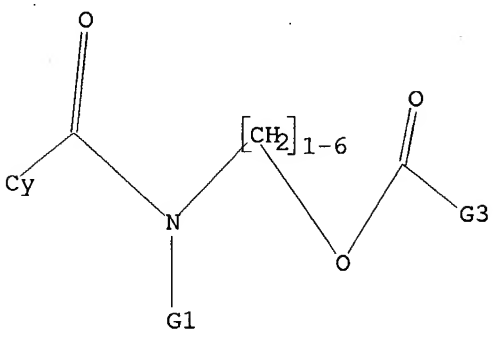
=>
Uploading C:\Program Files\Stnexp\Queries\030061z.str

L17 STRUCTURE UPLOADED

=>
Uploading C:\Program Files\Stnexp\Queries\030061y.str

L18 STRUCTURE UPLOADED

=> d l17
L17 HAS NO ANSWERS
L17 STR



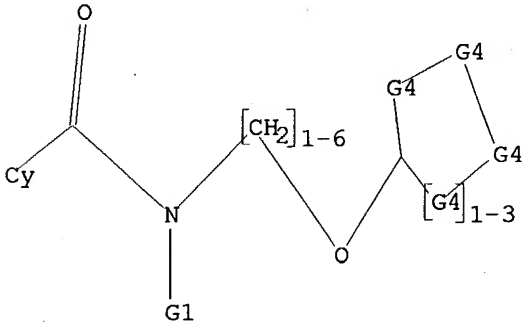
G1 H,Me,Et,n-Pr,i-Pr,n-Bu,i-Bu,s-Bu,t-Bu

G2 Me,Et,n-Pr,i-Pr,n-Bu,i-Bu,s-Bu,t-Bu

G3 O,N,CH2,Cy

Structure attributes must be viewed using STN Express query preparation.

=> d l18
L18 HAS NO ANSWERS
L18 STR



G1 H,Me,Et,n-Pr,i-Pr,n-Bu,i-Bu,s-Bu,t-Bu

G2 Me,Et,n-Pr,i-Pr,n-Bu,i-Bu,s-Bu,t-Bu

G3 O,N,CH2,Cy

G4 C,O,S,N

Structure attributes must be viewed using STN Express query preparation.

=> s l17
SAMPLE SEARCH INITIATED 14:05:23 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 14723 TO ITERATE

6.8% PROCESSED 1000 ITERATIONS 4 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)

10/030,061

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 287196 TO 301724
PROJECTED ANSWERS: 717 TO 1637

L19 4 SEA SSS SAM L17

=> s l18
SAMPLE SEARCH INITIATED 14:05:30 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 16956 TO ITERATE

5.9% PROCESSED 1000 ITERATIONS 21 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 331327 TO 346913
PROJECTED ANSWERS: 5989 TO 8253

L20 21 SEA SSS SAM L18

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	1.68	54.18

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-4.86

FILE 'CAPLUS' ENTERED AT 14:05:42 ON 27 JUN 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1907 - 27 Jun 2004 VOL 141 ISS 1
FILE LAST UPDATED: 25 Jun 2004 (20040625/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l19
L21 5 L19

=> d l21 1-5 ibib abs hitstr

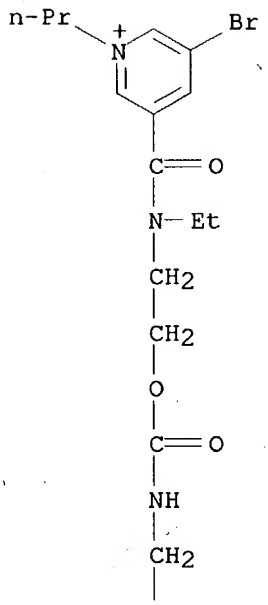
L21 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1989:533992 CAPLUS
DOCUMENT NUMBER: 111:133992
TITLE: Pyridinium derivatives and their production, pharmaceutical compositions, and use as antagonists of platelet activating factor
INVENTOR(S): Tsushima, Susumu; Takatani, Muneo; Nishikawa, Kohei
PATENT ASSIGNEE(S): Takeda Chemical Industries, Ltd., Japan
SOURCE: Eur. Pat. Appl., 164 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 301751	A1	19890201	EP 1988-306622	19880720
EP 301751	B1	19930310		
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
AT 86614	E	19930315	AT 1988-306622	19880720
ZA 8805304	A	19900328	ZA 1988-5304	19880721
IL 87189	A1	19960723	IL 1988-87189	19880722
JP 02076854	A2	19900316	JP 1988-186494	19880725
JP 2756975	B2	19980525		
US 4962113	A	19901009	US 1988-224352	19880726
AU 8820101	A1	19890209	AU 1988-20101	19880727
AU 613653	B2	19910808		
DK 8804214	A	19890201	DK 1988-4214	19880728
CA 1339645	A1	19980127	CA 1988-573439	19880729
KR 125929	B1	19971226	KR 1988-9705	19880730

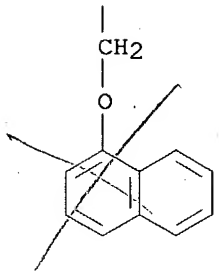
PRIORITY APPLN. INFO.: JP 1987-193479 A 19870731
JP 1988-138908 A 19880606
EP 1988-306622 A 19880720

OTHER SOURCE(S): MARPAT 111:133992
GI For diagram(s), see printed CA Issue.
AB Title compds. I [R1 = alkyl, aralkyl; R7, R10 = H, alkyl, aryl, aralkyl; l = 0, 1; R5 = (un)substituted C6H4 or alkylene; R11 = alkyl, aryl; X = CH2OCH2, (CHR6)m; R6 = H, alkyl, alkoxy; m = 0-3; U = OCO, NR4CO, NR4SO2; R4 = H, alkyl, aryl, aralkyl; Y, Z = divalent chain containing 1-6 of O, NR, CO, S, and SO2, with ≥1 member being O or NR; R = H, alkyl, acyl, aryl; pyridine ring is optionally substituted; W- = counter anion; R may form ring with another R, R4, or R11] are prepared as antagonists of platelet activating factor (PAF). N-[2-(1,2,3,4-Tetrahydroisoquinolyl)carbonyloxyethyl]-3-anilinopropanamide (prepared in 4 steps) was condensed with 5-chloronicotinic acid chloride hydrochloride to give 63.0% of corresponding nicotinamide, which underwent quaternization by PrI and anion exchange on a resin to give 75.6% chloro-N,N-{[[[[(tetrahydroisoquinolyl)carbonyloxy]ethyl]carbamoyl]ethyl}{phenyl}carbamoyl(propyl)pyridinium chloride II. At 3 mg/kg orally in rats, 1 h prior to dosing with 1 μg/kg i.v. of PAF, II gave 93% inhibition of PAF-induced hypotension.
IT **121492-33-9P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as platelet activating factor antagonist)
RN 121492-33-9 CAPLUS
CN Pyridinium, 3-bromo-5-[[ethyl[2-[[[[2-(1-naphthalenyloxy)ethyl]amino]carbonyl]oxy]ethyl]amino]carbonyl]-1-propyl-, iodide (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A

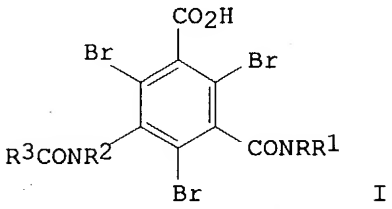


● I^-

L21 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1983:470400 CAPLUS
DOCUMENT NUMBER: 99:70400
TITLE: Brominated compounds for use as opaquing agents
INVENTOR(S): Dimo, Ioana; Bonnemain, Bruno; Hardouin, Michel Jean Charles; Lautrou, Jean
PATENT ASSIGNEE(S): Guerbet S. A., Fr.
SOURCE: Eur. Pat. Appl., 61 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 73715	A1	19830309	EP 1982-401578	19820825
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
FR 2512014	A1	19830304	FR 1981-16477	19810828
FR 2512014	B1	19850308		
ZA 8206034	A	19840328	ZA 1982-6034	19820819
AU 8287473	A1	19830303	AU 1982-87473	19820820
HU 31093	O	19840428	HU 1982-2769	19820827
JP 58052244	A2	19830328	JP 1982-149832	19820828
DD 205892	A5	19840111	DD 1982-242886	19820830

PRIORITY APPLN. INFO.: FR 1981-16477 19810828
OTHER SOURCE(S): CASREACT 99:70400
GI



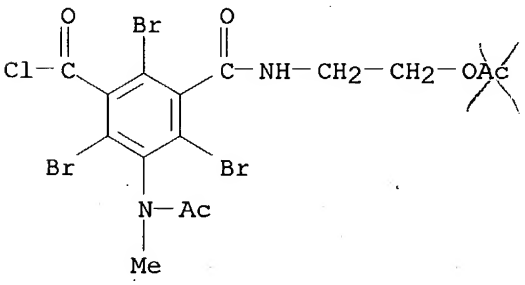
I

AB Tribromobenzoic acids I (R, R3 = H, alkyl, hydroxyalkyl, acyloxyalkyl; R1 = hydroxyalkyl, acyloxyalkyl; R2 = H, alkyl, hydroxyalkyl) and their salts were prepared Thus 3-amino-5-(2-hydroxyethylcarbamoyl)benzoic acid with tribrominated with Br and HCl and N-acetylated to give I (R = HOCH2CH2, R1 = R2 = H, R3 = Me) which was mixed 1:1 with Telebrix to give an x-ray contrast medium.

IT **86216-53-7P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, with hydroxyethylcarbamoyltribromobenzoic acid)

RN 86216-53-7 CAPLUS

CN Benzoyl chloride, 3-(acetylmethylamino)-5-[[[2-(acetyloxy)ethyl]amino]carbonyl]-2,4,6-tribromo- (9CI) (CA INDEX NAME)



L21 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1983:428012 CAPLUS
DOCUMENT NUMBER: 99:28012
TITLE: Opacifier compositions containing tribromobenzamide

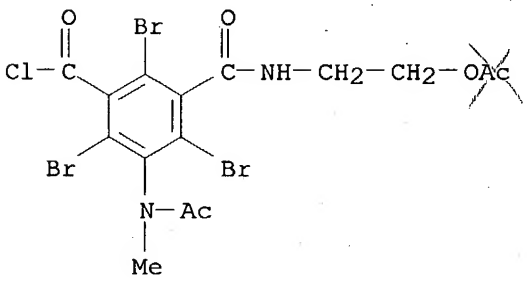
derivatives and iodinated compounds
INVENTOR(S): Dimo, Ioana; Bonnemain, Bruno; Hardouin, Michel Jean Charles; Lautrou, Jean
PATENT ASSIGNEE(S): Guerbet S. A., Fr.
SOURCE: Eur. Pat. Appl., 64 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 74309	A1	19830316	EP 1982-401580	19820825
R: BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
FR 2511871	A1	19830304	FR 1981-16478	19810828
FR 2511871	B1	19831223		
US 4474747	A	19841002	US 1982-409291	19820818
ZA 8206033	A	19840328	ZA 1982-6033	19820819
AU 8287474	A1	19830303	AU 1982-87474	19820820
NO 8202908	A	19830301	NO 1982-2908	19820827
FI 8202979	A	19830301	FI 1982-2979	19820827
DK 8203837	A	19830301	DK 1982-3837	19820827
JP 58074620	A2	19830506	JP 1982-149833	19820828

PRIORITY APPLN. INFO.: FR 1981-16478 19810828

AB Mixts. of iodinated radiog. opacifiers, e.g., Contrix and Telebrix, and brominated analogs had lower toxicity and higher tolerance than the iodinated agents alone without affecting the opacity magnitude of the iodinated agents. Thus, 2,4,6-tribromo-3-(methylcarbamoyl)-5-(acetylamino)benzoic acid (I) [86216-38-8] was prepared by the acetylation of 2,4,6-tribromo-3-(methylcarbamoyl)-5-aminobenzoic acid [86216-37-7] with Ac2O. Injections were prepared containing 30 g Contrix, 25 g I methylglucamine salt [86216-89-9] and H2O q.s.p. 100 mL.

IT **86216-53-7P**
RL: RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(preparation and acylation by, of aminoacetamidobenzoic acid derivative)
RN 86216-53-7 CAPLUS
CN Benzoyl chloride, 3-(acetylmethylamino)-5-[[[2-(acetyloxy)ethyl]amino]carbonyl]-2,4,6-tribromo- (9CI) (CA INDEX NAME)



L21 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1977:438930 CAPLUS
DOCUMENT NUMBER: 87:38930
TITLE: N-(Furoyloxyethyl) fatty acid amides
INVENTOR(S): Bailey, August V.; Boudreaux, Gordon J.; Sumrell, Gene; Novak, Arthur F.

PATENT ASSIGNEE(S): United States Dept. of Agriculture, USA
SOURCE: U.S., 5 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4017522	A	19770412	US 1976-667063	19760315
US 667063	A0	19760307	US 1976-667063	19760315

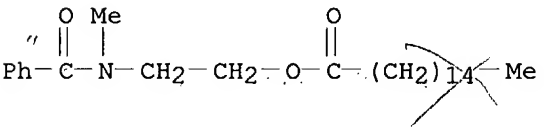
PRIORITY APPLN. INFO.: US 1976-667063 19760315

AB Twenty-six fatty acid amides, e.g., (PhCO2CH2CH2)2NCO(CH2)10Me, [Me(CH2)16CO2CH2CH2]2NCOPh, N,N-bis[(2-furoyloxy)ethyl]oleamide, PhCO2CH2,CH2NMeCO(CH2)14Me, were prepared by esterification of hydroxyethyl amides with acyl chlorides. The antimicrobial activity of the amides against Staphylococcus aureus, Candida albicans, etc. was determined

IT **63057-12-5P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation and antimicrobial activity of)

RN 63057-12-5 CAPLUS

CN Hexadecanoic acid, 2-(benzoylmethylamino)ethyl ester (9CI) (CA INDEX NAME)



L21 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1977:400707 CAPLUS
DOCUMENT NUMBER: 87:707
TITLE: New antimicrobial fatty ester amides
INVENTOR(S): Novak, Arthur F.
PATENT ASSIGNEE(S): United States Dept. of Agriculture, USA
SOURCE: U. S. Pat. Appl., 7 pp. Avail. NTIS.
CODEN: XAXXAV
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

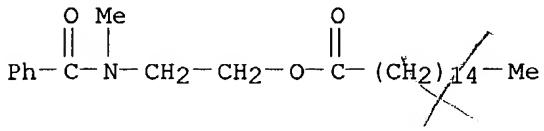
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 667063	A0	19760307	US 1976-667063	19760315
US 4017522	A	19770412	US 1976-667063	19760315

PRIORITY APPLN. INFO.: US 1976-667063 19760315

AB A number of fatty ester amides were synthesized and screened for their antimicrobial activities against bacteria, yeast, and molds. Many of the compds. were effective against one or more of the microorganisms when saturated filter paper disks were placed on the surface of agar plates inoculated with the test organisms.

IT **63057-12-5P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); PREP

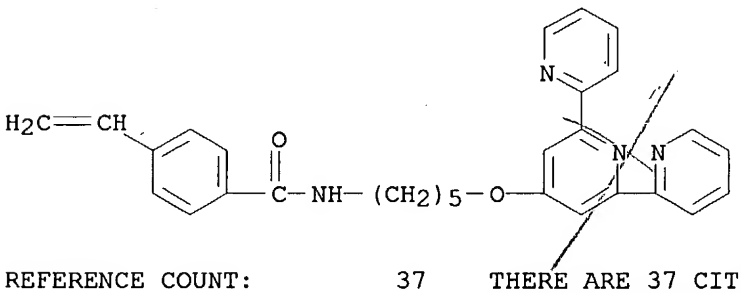
(Preparation); USES (Uses)
(preparation and antimicrobial activity of)
RN 63057-12-5 CAPLUS
CN Hexadecanoic acid, 2-(benzoylmethylamino)ethyl ester (9CI) (CA INDEX NAME)



=> s l20
L22 24 L20

=> d l22 1-24 ibib abs hitstr

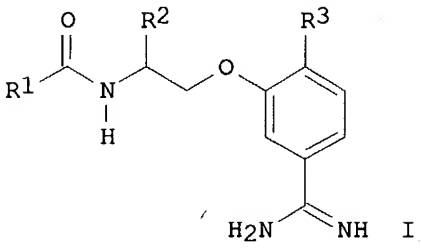
L22 ANSWER 1 OF 24 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2004:99623 CAPLUS
DOCUMENT NUMBER: 140:304147
TITLE: Synthesis of Terpyridine-Containing Polymers with Blocky Architectures
AUTHOR(S): Aamer, Khaled A.; Tew, Gregory N.
CORPORATE SOURCE: Department of Polymer Science and Engineering, University of Massachusetts, Amherst, MA, 01003, USA
SOURCE: Macromolecules (2004), 37(5), 1990-1993
CODEN: MAMOBX; ISSN: 0024-9297
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
AB The paper reports the synthesis and characterization of block-random polymer architectures based on styrene and Me methacrylate with narrow polydispersity index containing terpyridine in the side chain using living controlled radical polymerization
IT **676445-94-6P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(monomer; synthesis of terpyridine-containing styrene polymers with random and block architectures)
RN 676445-94-6 CAPLUS
CN Benzamide, 4-ethenyl-N-[5-([2,2':6',2''-terpyridin]-4'-yloxy)pentyl]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 37 THERE ARE 37 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L22 ANSWER 2 OF 24 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2003:278889 CAPLUS
DOCUMENT NUMBER: 139:21996
TITLE: Rational Design, Synthesis, and Structure-Activity Relationships of Novel Factor Xa Inhibitors: (2-Substituted-4-amidinophenyl)pyruvic and -propionic Acids
AUTHOR(S): Sagi, Kazuyuki; Nakagawa, Tadakiyo; Yamanashi, Masahiro; Makino, Shingo; Takahashi, Mitsuo; Takayanagi, Masaru; Takenaka, Kaoru; Suzuki, Nobuyasu; Oono, Seiji; Kataoka, Noriyasu; Ishikawa, Kohki; Shima, Sayaka; Fukuda, Yumiko; Kayahara, Takashi; Takehana, Shunji; Shima, Yoichiro; Tashiro, Kazumi; Yamamoto, Hiroshi; Yoshimoto, Ryota; Iwata, Seinosuke; Tsuji, Takashi; Sakurai, Kuniya; Shoji, Masataka
CORPORATE SOURCE: Pharmaceutical Research Laboratories, Ajinomoto Company Inc., Kawasaki-ku, Kawasaki-shi, 210-8681, Japan
SOURCE: Journal of Medicinal Chemistry (2003), 46(10), 1845-1857
CODEN: JMCMAR; ISSN: 0022-2623
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 139:21996
GI



I

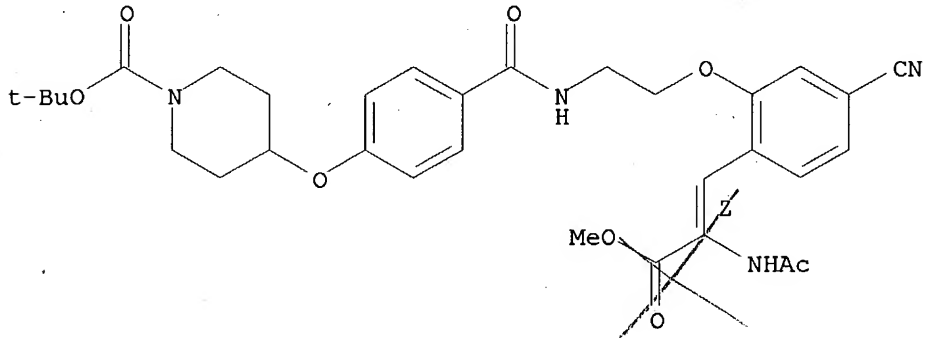
AB An inhibitor of factor Xa (fXa), the m-substituted benzamidine AXC1578 I [R1 = 4-(H2NC:NH)C6H4; R2 = R3 = H; (II)], was structurally modified with the aim of increasing its potency. In particular, pyruvic acid and propionic acid substituents were incorporated into the P1 benzamidine moiety (R3) to introduce a favorable interaction with the oxy-anion hole in the catalytic triad region of fXa. This strategy was based on computational docking studies using the extracted active site of fXa. The validity of the computational model was supported by the acquisition of X-ray crystal structures of the II-trypsin and I [R1 = 4-[4-(1-methylamidinopiperidinyl)oxy]phenyl; R2 = H; R3 = HO2CCOCH2]-trypsin complexes (the homol. around the active sites of fXa and trypsin is high). The above modifications significantly increased the inhibitory activity toward fXa, whereas the high selectivity for fXa vs. thrombin was maintained or enhanced. I [R1 = 4-[4-(1-methylamidinopiperidinyl)oxy]phenyl, 4-[1-(4-pyridyl)]piperidinyl; R2 = H, HO2CCH2; R3 = HO2CCH2CH2, HO2CCOCH2] are considered to be potential lead compds. for the development of orally active anticoagulant drugs because they demonstrated potent activity when administered orally to cynomolgus monkeys.
IT **538335-90-9P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT

(Reactant or reagent)
(preparation of (acylamino)alkoxy benzamidines as factor Xa inhibitors and anticoagulants)

RN 538335-90-9 CAPLUS

CN 1-Piperidinecarboxylic acid, 4-[4-[[[2-[2-[(1Z)-2-(acetylamino)-3-methoxy-3-oxo-1-propenyl]-5-cyanophenoxy]ethyl]amino]carbonyl]phenoxy]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Double bond geometry as shown.



REFERENCE COUNT: 48 THERE ARE 48 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L22 ANSWER 3 OF 24 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2000:869577 CAPLUS

DOCUMENT NUMBER: 134:37034

TITLE: Amidocarboxylate derivatives as sugar and lipid metabolism-improving agents

INVENTOR(S): Yanagisawa, Hiroaki; Sakurai, Mitsuya; Takamura, Minoru; Fujiwara, Toshihiko

PATENT ASSIGNEE(S): Sankyo Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 317 pp.
CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

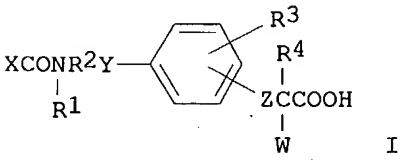
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000344666	A2	20001212	JP 2000-98322	20000331

PRIORITY APPLN. INFO.: JP 1999-94840 A 19990401

GI



I

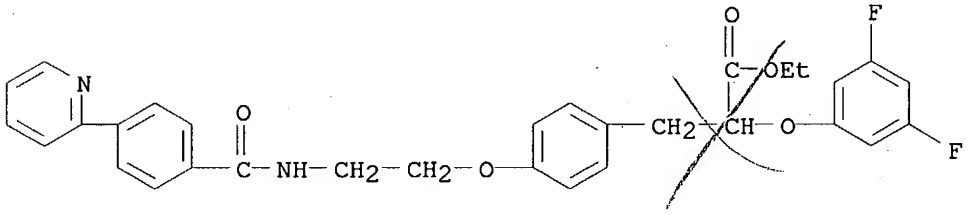
AB Amidocarboxylate derivs. (I; R1 = H, etc.; R2= alkylene; R3, R4 = H, etc.; X = (substituted)aryl; Y = O, etc.; Z = alkylene, etc.; W = alkyl, etc.)

and their pharmacol. acceptable salts are claimed as sugar and lipid metabolism-improving agents, hypoglycemics against insulin resistance and diabetic complications, antiinflammatory agents, immunomodulators, aldose reductase inhibitors, antioxidants for inhibiting lipid peroxides, antiosteoporotics, neuroprotectants against apoptosis including Alzheimer's disease and stroke, hypolipidemics, antiobesity agents, ovary polycystic syndrome inhibitors, antiarteriosclerotics, allergy inhibitors, antiasthmatics, antihypertensives, and rheumatoid arthritis inhibitors. I were prepared, and formulation examples of capsules, tablets, and granules were given.

IT **223125-94-8P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(amidocarboxylate derivs. as sugar and lipid metabolism-improving agents)

RN 223125-94-8 CAPLUS

CN Benzenepropanoic acid, α-(3,5-difluorophenoxy)-4-[2-[[4-(2-pyridinyl)benzoyl]amino]ethoxy]-, ethyl ester (9CI) (CA INDEX NAME)



L22 ANSWER 4 OF 24 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2000:608717 CAPLUS
DOCUMENT NUMBER: 133:207678
TITLE: Preparation of sulfonamide derivs. as amyloid β production inhibitors useful in treating or preventing diseases related to Aβ
INVENTOR(S): Smith, David W.; Munoz, Benito; Srinivasan, Kumar; Bergstrom, Carl P.; Chaturvedula, Prasad V.; Deshpande, Milind S.; Keavy, Daniel J.; Lau, Wai Yu; Parker, Michael F.; Sloan, Charles P.; Wallace, Owen B.; Wang, Henry Hui
PATENT ASSIGNEE(S): Merck & Co., Inc., USA; Bristol-Myers Squibb Company
SOURCE: PCT Int. Appl., 377 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

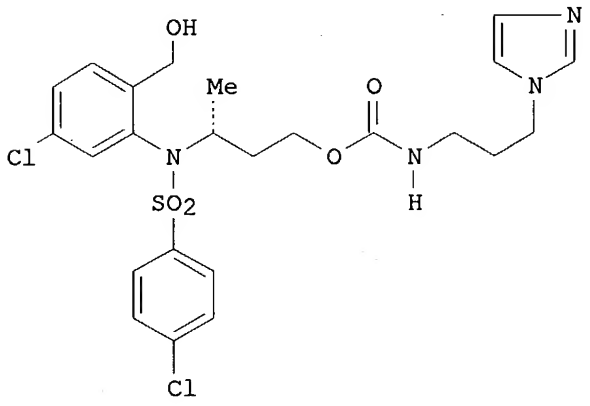
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000050391	A1	20000831	WO 2000-US4560	20000222

W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,

CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
EP 1159263 A1 20011205 EP 2000-910293 20000222
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO
BR 2000008965 A 20020226 BR 2000-8965 20000222
JP 2002537376 T2 20021105 JP 2000-600975 20000222
NZ 514453 A 20030429 NZ 2000-514453 20000222
ZA 2001006646 A 20021113 ZA 2001-6646 20010813
NO 2001004135 A 20010927 NO 2001-4135 20010824
PRIORITY APPLN. INFO.: US 1999-121906P P 19990226
US 1999-122746P P 19990226
US 1999-122748P P 19990226
US 1999-130994P P 19990423
US 1999-130995P A2 19990423
WO 2000-US4560 W 20000222
OTHER SOURCE(S): MARPAT 133:207678

GI



I

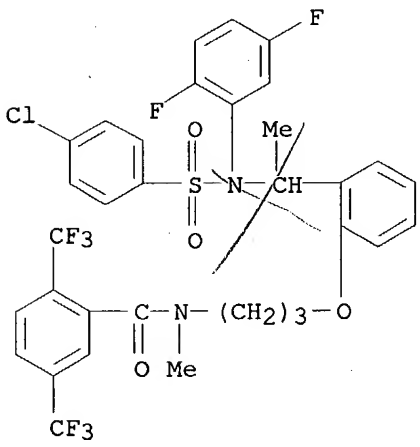
AB Title compds. [(D)(G)CHN(E)SO2(J); D = H, alkyl, heterocycle, halo, alkoxyl, ester, amide; G = alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkenyl, cycloalkynyl, (CHR1)nO(CHR2)mCONR3R4, heterocycle, aryl, amine, amide, ester, ether, carbamate; D-G = cyclic; n = 1, 2, 3, 4; m = 0, 1, 2, 3, 4; R1, R2, R3, R4 are independently H, alkyl; R3-R4 = cyclic; E = H, alkyl, alkenyl, alkynyl, heterocycle, aryl, alkoxyl, amide, sulfonyl, sulfonamidyl, sulfide; J = alkyl, alkenyl, alkynyl, aryl, heterocycle, polycyclic; J-E = cyclic], pharmaceutically acceptable salts, and composition comprising title compds. are prepared Title compds. can act to modulate production of amyloid β protein (APP751, APP695wt, APP670/671, APP670/671/717, sAPP, α-sAPP, β-sAPP) and are useful in the prevention or treatment of a variety of diseases; such diseases are amyloid angiopathy, cerebral amyloid angiopathy, systemic amyloidosis, Alzheimer's disease, hereditary cerebral hemorrhage with amyloidosis of the Dutch type, inclusion body myositis, and Down's syndrome. Thus, the title compound I was prepared and tested.

IT **290324-46-8P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of sulfonamide derivs. as amyloid β production inhibitors useful in treating or preventing diseases related to Aβ)

RN 290324-46-8 CAPLUS

CN Benzamide, N-[3-[2-[1-[[(4-chlorophenyl)sulfonyl](2,5-

difluorophenyl)amino]ethyl]phenoxy]propyl]-N-methyl-2,5-bis(trifluoromethyl)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

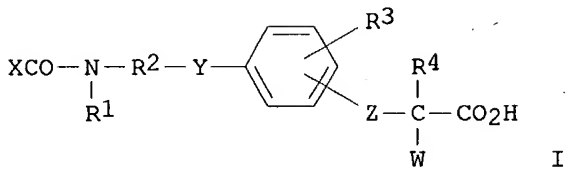
L22 ANSWER 5 OF 24 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1999:244628 CAPLUS
DOCUMENT NUMBER: 130:296612
TITLE: Preparation of amidocarboxylic acid derivatives as inhibitors of aldose reductase, 5-lipoxygenase, and lipid peroxide formation and as peroxisome proliferator-activated receptor (PPAR) activators
INVENTOR(S): Yanagisawa, Hiroaki; Sakurai, Mitsuya; Takamura, Makoto; Fujiwara, Toshihiko
PATENT ASSIGNEE(S): Sankyo Company, Ltd., Japan
SOURCE: PCT Int. Appl., 720 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9918066	A1	19990415	WO 1998-JP4396	19980930
W: AU, BR, CA, CN, CZ, HU, ID, IL, JP, KR, MX, NO, NZ, PL, RU, TR, US				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
CA 2305808	AA	19990415	CA 1998-2305808	19980930
AU 9892798	A1	19990427	AU 1998-92798	19980930
AU 738134	B2	20010906		
EP 1026149	A1	20000809	EP 1998-945527	19980930
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
BR 9813019	A	20000905	BR 1998-13019	19980930
TR 200000896	T2	20000921	TR 2000-200000896	19980930
RU 2176999	C2	20011220	RU 2000-108440	19980930
US 6528525	B1	20030304	US 2000-540765	20000330
NO 2000001689	A	20000531	NO 2000-1689	20000331
US 2004006141	A1	20040108	US 2002-254154	20020925

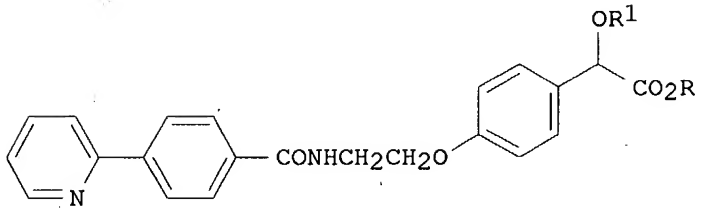
PRIORITY APPLN. INFO.: JP 1997-269923 A 19971002
WO 1998-JP4396 W 19980930
US 2000-540765 A3 20000330

OTHER SOURCE(S): MARPAT 130:296612

GI



I



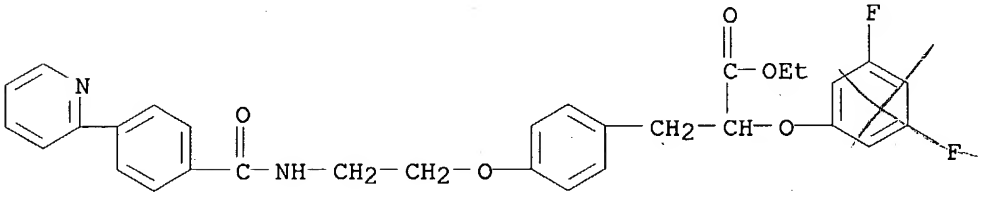
II

AB Claimed and prepared are amidocarboxylic acid derivs. (phenylalkanoic acids containing arylcarboxamide derivs.) represented by general formula (I), pharmacol. acceptable salts thereof, or pharmacol. acceptable esters thereof, [wherein R1 = H, linear or branched C1-6 alkyl, C7-12 aralkyl; R2 = linear or branched C1-6 alkylene; R3 = H, linear or branched alkyl C1-6 alkyl, C1-4 alkoxy, or C1-4 alkylthio, halo, NO2, di(linear or branched C1-4 alkyl)amino, (un)substituted C6-10 aryl, C7-12 aralkyl optionally having 1-5 substituents on the aryl, OH, linear or branched C1-5 aliphatic acyl; R4 = H, linear or branched C1-6 alkyl; Z = linear or branched C1-6 alkylene; W = HO, linear or branched C1-6 alkyl, C1-4 alkoxy, or C1-4 alkylthio, (un)substituted C6-10 aryl, C6-10 aryloxy, C6-10 arylthio, C7-12 aralkyloxy, C7-12 aralkylthio, or C6-10 aryloxy-linear or branched C1-4 alkyl each optionally having 1-5 substituents on the aryl, 5- to 10-membered mono- or bicyclic heteroaryloxy containing 1-4 heteroatoms selected from O, N, and S, etc.; X = C6-10 aryl optionally having 1-3 substituents, 5- to 10-membered mono- or bicyclic heteroaryl containing 1-4 heteroatoms selected from O, N, and S; Y = single bond, O, S, (un)substituted NH]. Also claimed are blood sugar- and blood lipid-lowering agents, insulin resistance improver, antiinflammatory agents, immunomodulators, aldose reductase inhibitors, 5-lipoxygenase inhibitors, lipid peroxide formation inhibitors, PPAR activators, and anti-osteoporosis agents and therapeutic or prophylactic agents for diabetes, hyperlipemia, obesity, impaired glucose tolerance, insulin resistant non-impaired glucose tolerance, fatty liver, diabetes complications, gestational diabetes mellitus, polycystic ovary syndrome, osteoarthritis, rheumatoid arthritis, allergies, asthma, cancers, autoimmune diseases, pancreatitis, and cataract. Thus, N-deprotection of Et 2-ethoxy-3-[4-(2-phthalimidoethoxy)phenyl]propionate with hydrazine hydrate in MeOH at room temperature for 1.5 h followed by amidation with 4-pyridin-2-ylbenzoic acid using carbonyl diimidazole in CH2Cl2 at room temperature for 1. 5 h followed by saponification with a mixture of 1 N aqueous NaOH and MeOH
and acidification gave 3-[4-[2-(4-pyridin-2-ylbenzoylamino)ethoxy]phenyl]p

ropionic acid derivative (II.Na; R = H, R1 = Et) (III). III and (S)-II (R = H, R1 = 4-isopropoxyphenyl) in feed containing 0.01% at .apprx.10 mg drug/kg/day for 3 days lowered blood sugar level by 43 and 73%, resp. A capsule, a tablet, and a granule formulation containing III were prepared

IT **223125-94-8P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of amidocarboxylic acid derivs. as inhibitors of aldose reductase, 5-lipoxygenase, and lipid peroxide formation and as peroxisome proliferator-activated receptor (PPAR) activators for treatment and prevention of diseases)

RN 223125-94-8 CAPLUS
CN Benzenepropanoic acid, α-(3,5-difluorophenoxy)-4-[2-[[4-(2-pyridinyl)benzoyl]amino]ethoxy]-, ethyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L22 ANSWER 6 OF 24 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1998:509180 CAPLUS
DOCUMENT NUMBER: 129:161414
TITLE: Preparation of benzamidine derivatives as anticoagulants
INVENTOR(S): Takayanagi, Masaru; Sagi, Kazuyuki; Nakagawa, Tadakiyo; Yamanashi, Masahiro; Kayahara, Takashi; Takehana, Shunji; et al.
PATENT ASSIGNEE(S): Ajinomoto Co., Inc., Japan
SOURCE: PCT Int. Appl., 453 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

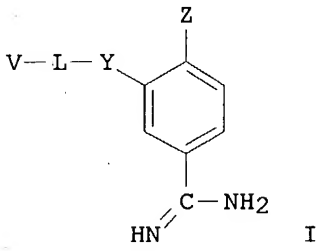
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9831661	A1	19980723	WO 1998-JP176	19980119
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9854975	A1	19980807	AU 1998-54975	19980119
AU 731819	B2	20010405		
EP 976722	A1	20000202	EP 1998-900422	19980119
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE, PT, IE, FI				

PRIORITY APPLN. INFO.:

JP 1997-6783	A	19970117
JP 1997-194602	A	19970718
JP 1997-331887	A	19971202
WO 1998-JP176	W	19980119

OTHER SOURCE(S): MARPAT 129:161414

GI



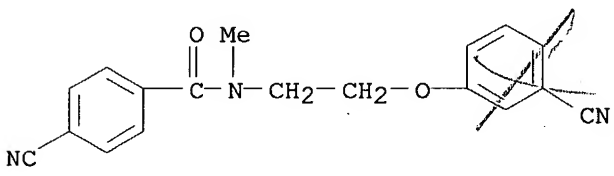
I

AB The title compds. I [L = CH2CH2, NWCOCH2, etc.; W = H, alkyl, etc.; Y = CH:CH, CONH, etc.; Z = H, alkyl, halo, etc.; when L is CH2CH2, V is benzoyl, cinnamoyl, etc., having substituents; further details on V are given] are prepared These compds. show anticoagulant effects based on their excellent effects of inhibiting activated blood coagulation factor X, which makes them useful as anticoagulants. In in vitro tests for the inhibition of activated blood coagulation factor X, compds. of this invention showed pIC50 values of 5.5 to 8.1.

IT **210963-13-6P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of benzamidine derivs. as anticoagulants)

RN 210963-13-6 CAPLUS

CN Benzamide, 4-cyano-N-[2-(3-cyanophenoxy)ethyl]-N-methyl- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L22 ANSWER 7 OF 24 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1998:113830 CAPLUS

DOCUMENT NUMBER: 128:163894

TITLE: Effect of soil fumigation on gladiolus plants grown in the field rotated with Sesbania javanica Miq.

AUTHOR(S): Lee, M. L.; Leu, L. S.

CORPORATE SOURCE: Pesticides Application Dep., Taiwan Agricultural Chemicals Toxic Substances Research Inst., Wufeng, Taiwan

SOURCE: Zhiwu Baohu Xuehui Huikan (1997), 39(4), 377-382
CODEN: PLPBBH; ISSN: 0577-750X

10/030,061

PUBLISHER: Plant Protection Society of the Republic of China
DOCUMENT TYPE: Journal
LANGUAGE: Chinese

AB In 1994 and 1995, gladiolus cv Rich Rose corms were dipped in 25% Prochloraz EC, 2000X + 50% Prothiophos EC, 1000X mixture for 30 min, then planted in the field in rotation after Sesbania javanica. S. javanica was grown for 50 days, plowed and flooded for 1.5 mo, then exposed for 1 mo. Thereafter, the soil was fumigated with Ca cyanamide (50 g/m2), dazomet (40 g/m2), and MeBr (28.3 g/m2). In 1994, dazomet treatment improved height and fresh weight of gladiolus, but not flower number In 1995, height and fresh weight of gladiolus did not differ between plants grown on fumigated and unfumigated soils; however, more flower buds were produced on soil treated with dazomet than with MeBr treatment. No gladiolus wilt occurred in 1994, and in 1995 wilt incidence did not differ among treatments. No bulb mites (Rhizoglyphus robini) were found in either year. Rotation with S. javanica and flooding and treating corms with fungicide and acaricide mixture could reduce the severity of Fusarium wilt in gladiolus to a negligible degree or none.

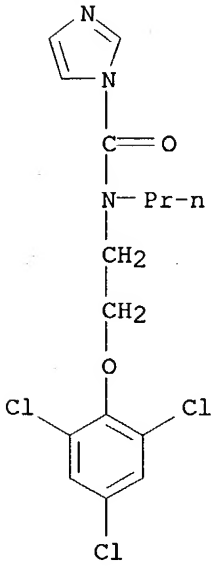
IT **203124-98-5**
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(corm treatment with acaricide-fungicide mixture effect on severity of Fusarium wilt in gladiolus grown in rotation with Sesbania)

RN 203124-98-5 CAPLUS

CN Phosphorodithioic acid, O-(2,4-dichlorophenyl) O-ethyl S-propyl ester, mixt. with N-propyl-N-[2-(2,4,6-trichlorophenoxy)ethyl]-1H-imidazole-1-carboxamide (9CI) (CA INDEX NAME)

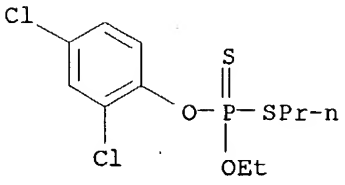
CM 1

CRN 67747-09-5
CMF C15 H16 Cl3 N3 O2

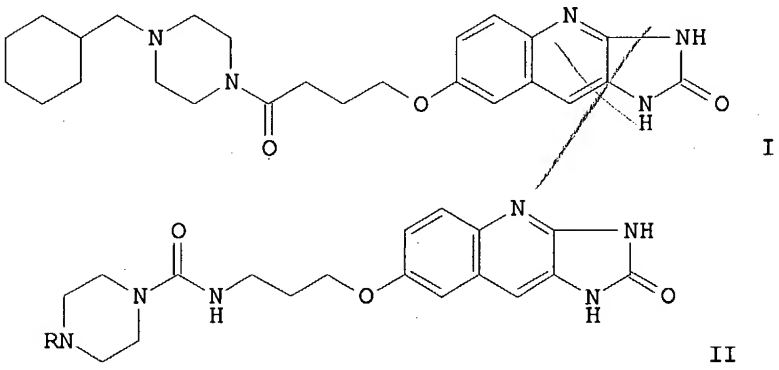


CM 2

CRN 34643-46-4
CMF C11 H15 Cl2 O2 P S2



L22 ANSWER 8 OF 24 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1993:671117 CAPLUS
DOCUMENT NUMBER: 119:271117
TITLE: Inhibitors of blood platelet cAMP phosphodiesterase. 4. Structural variation of the side-chain terminus of water-soluble 1,3-dihydro-2H-imidazo[4,5-b]quinolin-2-one derivatives
AUTHOR(S): Meanwell, Nicholas A.; Hewawasam, Piyasena; Thomas, Jeanine A.; Wright, J. J. Kim; Russell, John W.; Gamberdella, Marianne; Goldenberg, Harold J.; Seiler, Steven M.; Zavoico, George B.
CORPORATE SOURCE: Div. Chem., Bristol-Myers Squibb Pharm. Res. Inst., Wallingford, CT, 06492, USA
SOURCE: Journal of Medicinal Chemistry (1993), 36(22), 3251-64
CODEN: JMCMAR; ISSN: 0022-2623
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



I

II

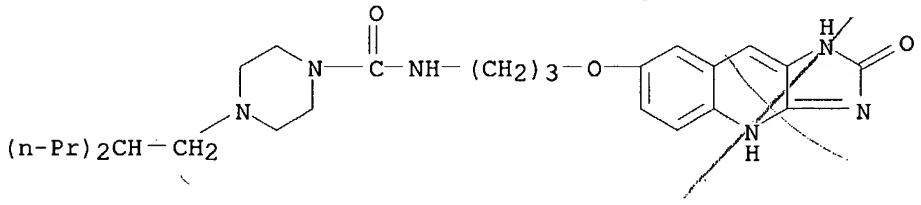
AB 1-(Cyclohexylmethyl)-4-[4-[(2,3-dihydro-2-oxo-1H-imidazo[4,5-b]quinolin-7-yl)oxy]-1-oxobutyl]-piperazine (I) was previously identified as a potent, water-soluble inhibitor of human blood platelet cAMP phosphodiesterase and of induced aggregation in vitro that demonstrated effective antithrombotic activity in animal models of thrombosis. Although I exhibited 25% oral bioavailability in rats, pharmacokinetic studies conducted in monkeys revealed that the parent compound was <5% bioavailable, the result of extensive 1st-pass biotransformation in the liver. In an effort to identify potent platelet aggregation inhibitors with enhanced metabolic stability, the side-chain amide moiety of I was replaced with chemical more

stable urea II (R = hydrogen, benzyl, alkyl, etc.), sulfonamide, sulfone, and tetrazole moieties. Many representatives from each of these structural types effectively combine potent inhibition of ADP-induced human platelet aggregation in vitro with excellent aqueous solubility, and several are superior to I. Within each series, the N-(cyclohexylmethyl)-, N-(2-ethylbutyl)-, N-benzyl-, and N-(4-fluorobenzyl)-substituted derivs. were evaluated for in vitro metabolic stability by incubating with the S-9 fraction of monkey liver for 2 h, and the extent of biotransformation was compared with that of the prototype I. Some sulfones were significantly more stable than I under these conditions. However, the oral bioavailability of some tetrazole or sulfone derivs. in the rat is only 3%, suggesting that they are less readily absorbed from the gastrointestinal tract than I.

IT **148819-55-0P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as platelet aggregation inhibitor)

RN 148819-55-0 CAPLUS

CN 1-Piperazinecarboxamide, N-[3-[(2,3-dihydro-2-oxo-1H-imidazo[4,5-b]quinolin-7-yl)oxy]propyl]-4-(2-propylpentyl)-, dihydrochloride (9CI) (CA INDEX NAME)

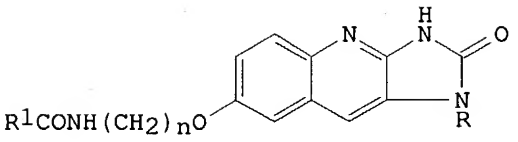


●2 HCl

L22 ANSWER 9 OF 24 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1993:603409 CAPLUS
DOCUMENT NUMBER: 119:203409
TITLE: Imidazo[4,5-b]quinolinyloxyalkylureas
INVENTOR(S): Meanwell, Nicholas A.
PATENT ASSIGNEE(S): Bristol-Myers Squibb Co., USA
SOURCE: U.S., 14 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5196428	A	19930323	US 1992-862899	19920403

PRIORITY APPLN. INFO.: US 1992-862899 19920403
OTHER SOURCE(S): MARPAT 119:203409
GI



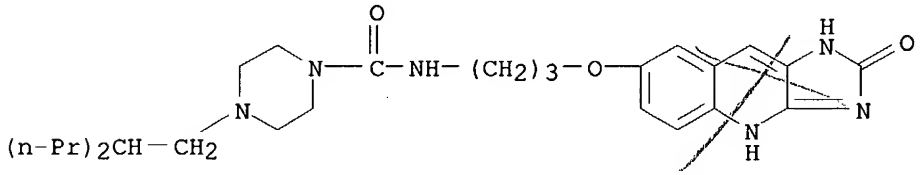
I

AB The title compds. I (R = H, C1-4 alkyl, R1 = C1-4 alkoxy; NR2R3; R2 = H, C1-4 alkyl, R3 = H, C1-4 alkyl, C4-4 cycloalkyl; R2R3 may form heterocycle; n = 1-5) were prepared as inhibitors of ADP-induced blood platelet aggregation in human platelet-rich plasma. Thus, 4-[(2,3-dihydro-2-oxo-1H-imidazo[4,5-b]quinolin-7-yl)oxy]butyric acid was treated with diphenylphosphorylazide in DMF followed by treatment with 1-(2-ethylbutyl)piperazine to give 44% I (R = H, R1 = 4-(2-ethylbutyl)piperazino, n = 3) (II). The IC50 of II for inhibitions of ADP-induced platelet aggregation was 0.022 kg/mol.

IT **148819-55-0P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and blood platelet aggregation inhibitor activity of)

RN 148819-55-0 CAPLUS

CN 1-Piperazinecarboxamide, N-[3-[(2,3-dihydro-2-oxo-1H-imidazo[4,5-b]quinolin-7-yl)oxy]propyl]-4-(2-propylpentyl)-, dihydrochloride (9CI) (CA INDEX NAME)

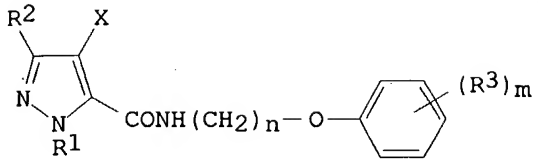


●2 HCl

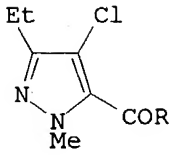
L22 ANSWER 10 OF 24 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1991:656159 CAPLUS
DOCUMENT NUMBER: 115:256159
TITLE: Preparation of pyrazolecarboxamide derivatives as insecticides and miticides
INVENTOR(S): Okada, Itaru; Tanaka, Toshihiko; Ishii, Kazuo; Okui, Shuko; Takahashi, Yoji
PATENT ASSIGNEE(S): Mitsubishi Kasei Corp., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 11 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 03153668	A2	19910701	JP 1989-291479	19891109

PRIORITY APPLN. INFO.: JP 1989-291479 19891109
OTHER SOURCE(S): MARPAT 115:256159
GI



I



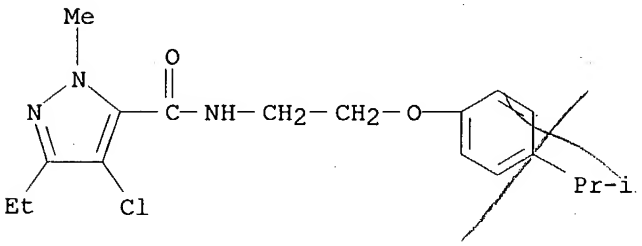
II

AB Pyrazolecarboxamides [I; R1 = C1-4 alkyl; R2 = H, C1-4 alkyl, alkoxy; X = H, halo, C1-4 alkyl, alkoxy, C1-3 haloalkoxy, R2X may form (C1-3 alkyl-substituted) 5- or 6-membered ring; R3 = H, halo, C1-7 alkyl, C3-5 alkenyl, alkynyl, etc.; m = 1-3; n 1-4] are prepared Refluxing 1.25 g acid II (R = OH) with SOCl2 gave acid chloride II (R = Cl), which (1.37 g) was treated with 1.37 g 4-[me(CH2)4]C6H4OCH2CH2NH2 and Et3N in EtOAc at 0-10° to give 2.25 g amide I [R1 = Me, R2 = Et, (R3)m = 4-Me(CH2)4, X = Cl, n = 2], which killed 100% red spidermite larvae and eggs at 500 ppm. Also prepared and tested were of addnl. I.

IT **137216-52-5P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as insecticide and miticide)

RN 137216-52-5 CAPLUS

CN 1H-Pyrazole-5-carboxamide, 4-chloro-3-ethyl-1-methyl-N-[2-[4-(1-methylethyl)phenoxy]ethyl]- (9CI) (CA INDEX NAME)



L22 ANSWER 11 OF 24 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1990:523756 CAPLUS

DOCUMENT NUMBER: 113:123756

TITLE: Photographic material containing benzoxazine or benzothiazine derivative for increased speed

INVENTOR(S): Monbaliu, Marcel Jacob; Joly, Ludovicus Pieter; Steeman, Erwin Charles; Van de Sande, Christian Charles

PATENT ASSIGNEE(S): Agfa-Gevaert N. V., Belg.

SOURCE: Eur. Pat. Appl., 20 pp.
CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

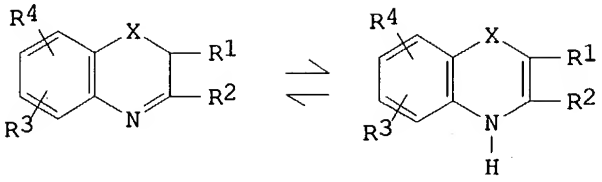
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 363527	A1	19900418	EP 1988-202261	19881011
R: BE				

PRIORITY APPLN. INFO.: EP 1988-202261 19881011

OTHER SOURCE(S): MARPAT 113:123756
GI

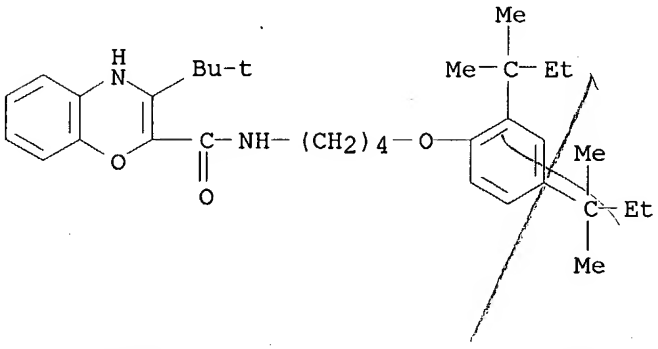


AB A benzoxazine or benzothiazine derivative of the structure I (X = O or S; R1 = H, alkyl, aryl, acyl, heterocyclyl, heterocyclylcarbonyl, aclkylcarbamoyl, arylcarbamoyl, heterocyclylcarbamoyl, alkoxycarbonyl, aryloxycarbonyl, or carboxy; R2 = H, alkyl, alkyloxy, aryl, heterocyclyl, or OH, R1 and R2 together may represent a group of atoms completing a nucleus; R3, R4 = H, halogen, alkyl, alkoxy, aralkyloxy, aryl, alkenyl, acylamido, alkylamino, OH, alkoxycarbonyl, aryloxycarbonyl, alkyloxycarbonyloxy, aryloxycarbonyloxy, alkylthio, arylthio, or benzenesulfonyl) is added to the Ag halide emulsion layer of a photog. material as a speed-increasing agent. The incorporation of the benzoxazine or benzothiazine derivative in the photog. material also improves its developability.

IT **129357-65-9**
RL: USES (Uses)
(photog. emulsions containing, for increased speed)

RN 129357-65-9 CAPLUS

CN 4H-1,4-Benzoxazine-2-carboxamide, N-[4-[2,4-bis(1,1-dimethylpropyl)phenoxy]butyl]-3-(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)

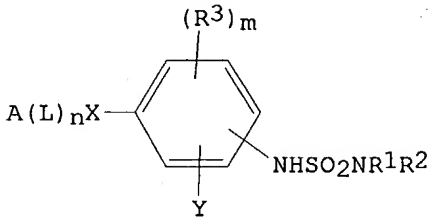


L22 ANSWER 12 OF 24 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1989:644158 CAPLUS
DOCUMENT NUMBER: 111:244158
TITLE: Silver halide color photographic material
INVENTOR(S): Ishige, Osamu; Kida, Shuji; Masukawa, Toyoaki; Hirabayashi, Shigeto
PATENT ASSIGNEE(S): Konica Co., Japan
SOURCE: Eur. Pat. Appl., 92 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 322904	A2	19890705	EP 1988-121812	19881228
EP 322904	A3	19900509		
R: DE, GB, IT, NL				
US 4977073	A	19901211	US 1988-290176	19881223
JP 02191946	A2	19900727	JP 1988-330421	19881227

PRIORITY APPLN. INFO.: JP 1987-333358 19871228

GI



I

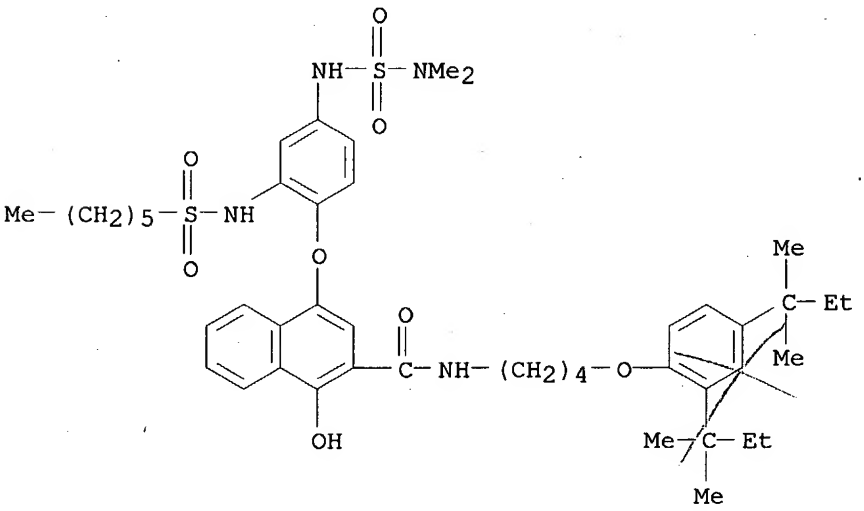
AB A Ag halide color photog. material capable of providing images having improved color reproduction and graininess comprises ≥1 coupler having the general formula I (A = a coupler residue that is capable of releasing the remaining group of the coupler upon reaction with an oxidation product of a developing agent; L = a timing group which is capable of releasing the rest of the group after the remaining group being released from A; n = 0, 1; X = O, S; Y = NHSO2R4, NHCOR4, NHSO2NR4R5; R1,R2,R4,R5 = H, an aliphatic group, an aromatic group, a heterocyclic group; R3 = a substituent; m = 0, 1, 2) and capable of forming a yellow, magenta, or cyan dye.

IT **123766-92-7**

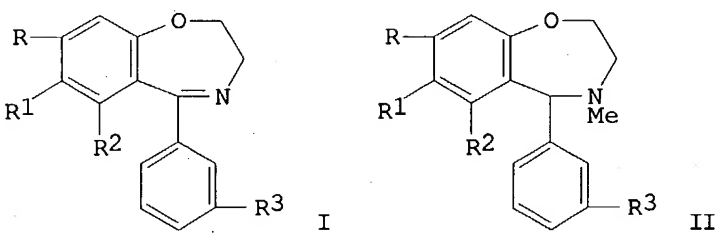
RL: TEM (Technical or engineered material use); USES (Uses)
(photog. coupler, for producing images of improved color reproduction and graininess)

RN 123766-92-7 CAPLUS

CN 2-Naphthalenecarboxamide, N-[4-[2,4-bis(1,1-dimethylpropyl)phenoxy]butyl]-4-[4-[[(dimethylamino)sulfonyl]amino]-2-[(hexylsulfonyl)amino]phenoxy]-1-hydroxy- (9CI) (CA INDEX NAME)



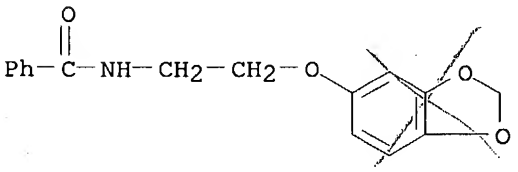
L22 ANSWER 13 OF 24 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1984:174792 CAPLUS
DOCUMENT NUMBER: 100:174792
TITLE: Synthesis of 5-aryl-1,4-benzoxazepine and 6-phenyl-2H-1,5-benzoxazocine derivatives
AUTHOR(S): Bremner, John B.; Browne, Elaine J.; Gunawardana, Indrani W. K.
CORPORATE SOURCE: Dep. Chem., Univ. Tasmania, Hobart, 7001, Australia
SOURCE: Australian Journal of Chemistry (1984), 37(1), 129-41
CODEN: AJCHAS; ISSN: 0004-9425
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 100:174792
GI



AB Four 5-aryl-2,3-dihydro-1,4-benzoxazepines I (R = OMe, R1 = R2 = H, R3 = H, Cl; RR1 = OCH2O, R2 = R3 = H; R = R2 = OMe, R1 = R3 = H) were prepared by a Bischler-Napieralski-type reaction of N-(2-aryloxyethyl)benzamides with POCl3 in MeCN or PrCN. I (R = R2 = R3 = H, R1 = H, Cl) were prepared by C-N ring-closure reactions. Cyclization of a dilute solution of 3-MeOC6H4O(CH2)3NHBz gave 40% yield of 9-methoxy-6-phenyl-3,4-dihydro-2H-1,5-benzoxazocine. Cyclic imines were converted into their methiodide salts. These were reduced with NaBH4 to benzoxazepines II, and 9-methoxy-5-methyl-6-phenyl-3,4,5,6-tetrahydro-2H-1,5-benzoxazocine. These products were prepared for use as a starting material in ring-expansions through the Meisenheimer rearrangement.

IT **89718-73-0P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and ring closure of)

RN 89718-73-0 CAPLUS
CN Benzamide, N-[2-(1,3-benzodioxol-5-yloxy)ethyl]- (9CI) (CA INDEX NAME)



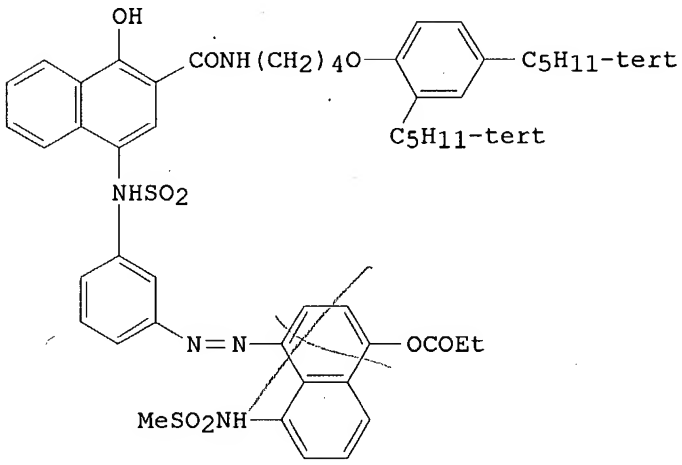
L22 ANSWER 14 OF 24 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1981:612988 CAPLUS
DOCUMENT NUMBER: 95:212988
TITLE: Photothermographic product

10/030,061

INVENTOR(S): Enriquez, Philip Maury; Mowrey, Rowland George
PATENT ASSIGNEE(S): Eastman Kodak Co., USA
SOURCE: Fr. Demande, 47 pp.
CODEN: FRXXBL
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2465249	A1	19810320	FR 1980-18993	19800903
FR 2465249	B1	19820122		
GB 2058383	A	19810408	GB 1980-28990	19800908
JP 56050328	A2	19810507	JP 1980-124468	19800908
JP 63027700	B4	19880603		

PRIORITY APPLN. INFO.: US 1979-73350 19790907
GI

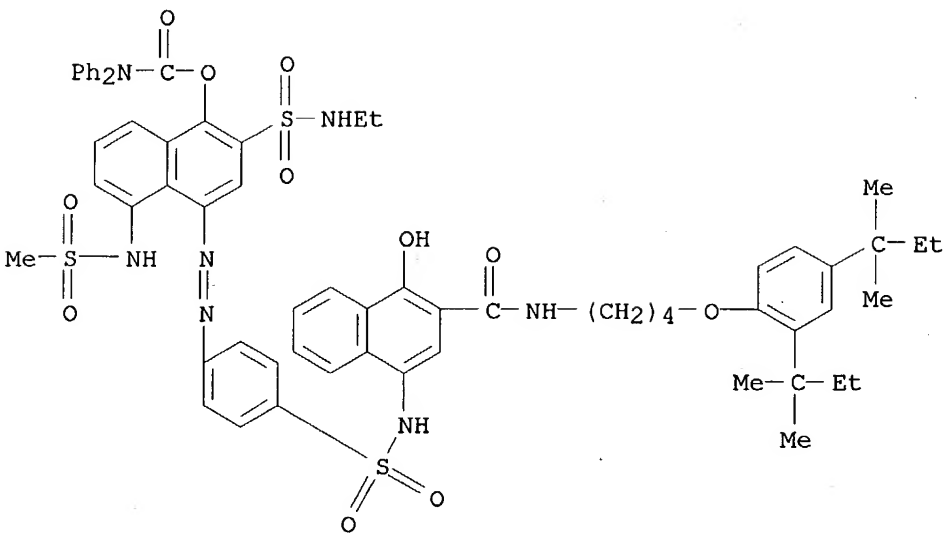


I

AB A combination of an azonaphthol or azophenol derivative color former with a thermally sensitive base-releasable compound provides improved photothermog. bleach-type image forming systems. Thus, a composition containing I, a gelatin binder, and [CH2CH2CON-N+Me2CH2CHOHMe]2 was coated on 3 supports to give 2.15, 4.3, and 2.15 g/m2, resp., dried, and heated on a plate for 30 s at 150° to give a magenta color.

IT **75169-59-4**
RL: USES (Uses)
(color former, for photothermog. system with thermally sensitive base-releasable compound)

RN 75169-59-4 CAPLUS
CN Carbamic acid, diphenyl-, 4-[[4-[[[3-[[[4-[2,4-bis(1,1-dimethylpropyl)phenoxy]butyl]amino]carbonyl]-4-hydroxy-1-naphthalenyl]amino]sulfonyl]phenyl]azo]-2-[(ethylamino)sulfonyl]-5-[(methylsulfonyl)amino]-1-naphthalenyl ester (9CI) (CA INDEX NAME)



L22 ANSWER 15 OF 24 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1980:628565 CAPLUS
DOCUMENT NUMBER: 93:228565
TITLE: Photographic recording material containing shifted dye releasing compound
INVENTOR(S): Ford, John Albert; Lestina, Gregory James
PATENT ASSIGNEE(S): Eastman Kodak Co., USA
SOURCE: Eur. Pat. Appl., 45 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 10001	A2	19800416	EP 1979-302168	19791010
EP 10001	A3	19810107		
EP 10001	B1	19830817		
R: BE, DE, FR, GB				
US 4234672	A	19801118	US 1978-949463	19781010
CA 1136126	A1	19821123	CA 1979-331975	19790717
JP 55053329	A2	19800418	JP 1979-129809	19791008
JP 60014341	B4	19850412		
US 999003	H	19801007	US 1980-143659	19800425

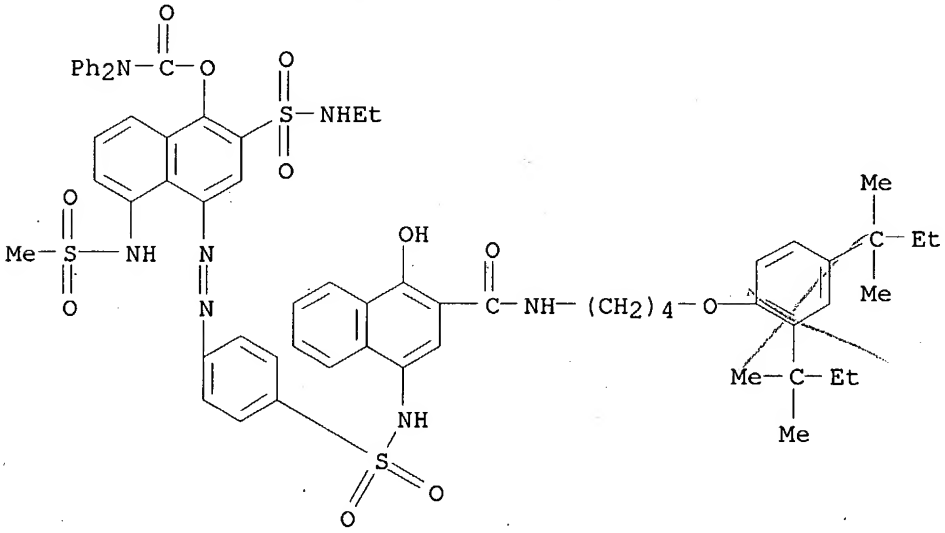
PRIORITY APPLN. INFO.: US 1978-949463 19781010
GI For diagram(s), see printed CA Issue.
AB A color diffusion-transfer photog. film contains a shifted azo dye-releasing compound having the general formula I [R1 = C4-20 tert-alkyl, NR42 where R4 = C1-10 alkyl, C6-20 aryl; R2 = C1-20 primary or secondary alkyl; Z1 = atoms required to complete an aromatic carbocyclic or heterocyclic nucleus having >1 ring of 5-7 atoms; Z2 = atoms required to complete a benzene or naphthalene nucleus; n = 0, 1, 2; R3= a monitoring group which, in the presence of an alkaline processing composition and as a function of Ag halide development, is responsible for a change in mobility of the dye]. The spectral absorption of the dye is shifted by a group which is resistant to cleavage during storage but which is rapidly cleavable under conditions of processing. Thus, a color transfer element

was prepared by coating a poly(ethylene terephthalate) support with a layer of the compound II (5 + 10-5 mol/ft2) dissolved in an organic solvent and dispersed in gelatin. The rate of deblocking of II was determined by subjecting the element to a 1.0N NaOH solution and by monitoring the unblocked dye spectrophotometrically to be <5 s (the time required to produce 1/2 the final d.). The raw stock stability ΔD (the change in d. at λmax between the element stored at 25.5° and 80% relative humidity and a control stored in a freezer) was determined to be 0.01.

IT **75169-59-4**
RL: USES (Uses)
(shifted azo dye-releasing compound, for color diffusion-transfer photog. films)

RN 75169-59-4 CAPLUS

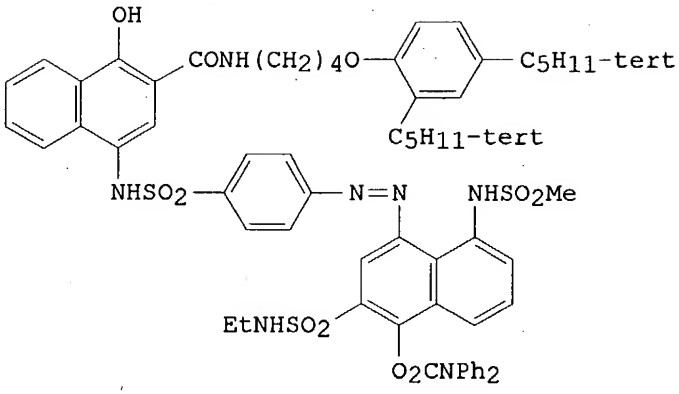
CN Carbamic acid, diphenyl-, 4-[[4-[[[3-[[[4-[2,4-bis(1,1-dimethylpropyl)phenoxy]butyl]amino]carbonyl]-4-hydroxy-1-naphthalenyl]amino]sulfonyl]phenyl]azo]-2-[(ethylamino)sulfonyl]-5-[(methylsulfonyl)amino]-1-naphthalenyl ester (9CI) (CA INDEX NAME)



L22 ANSWER 16 OF 24 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1980:577142 CAPLUS
DOCUMENT NUMBER: 93:177142
TITLE: Heat developable material and process
AUTHOR(S): Anon.
CORPORATE SOURCE: UK
SOURCE: Research Disclosure (1980), 194, 264-8 (No. 19419)
CODEN: RSDSBB; ISSN: 0374-4353
DOCUMENT TYPE: Journal; Patent
LANGUAGE: English
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
RD 194019		19800610		
PRIORITY APPLN. INFO.:			RD 1980-194019	19800610

GI



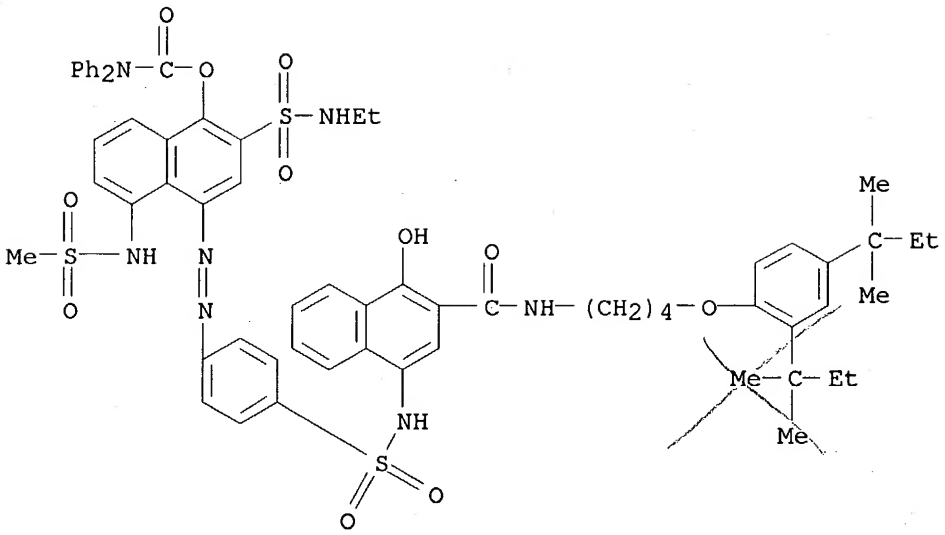
I

AB A photothermog. material capable of producing a dye image consists of, in binder, a photosensitive Ag salt, a Ag halide developing agent, an activating concentration of a heat-sensitive base-release agent, and an image dye precursor selected from azonaphthols and azophenols that contain a blocked auxochromic hydroxy group that can be deblocked to form an overall distribution by base from the base-release agent upon heating of the material at ≥100°. The resulting image dye is capable of being bleached imagewise in a Ag dye-bleach process. Thermog. materials containing the heat-sensitive base-release agent and the image dye precursor are also described. Thus, a photothermog. element was prepared by coating a transparent poly (ethylene terephthalate) support with a composition containing a gelatin-Ag(Br,I) emulsion 0.65, gelatin 8.6, 1-phenyl-3-pyrazolidone 0.99, an amine salt base-release agent 6.5, and I 0.43g/m2. This element was then exposed and subsequently developed at 150° for 30 s to produce a neg. Ag image and a uniform distribution of magenta dye in the element. The developed element was then laminated to a Ag dye-bleach activation sheet and heated 15 min at 110°. After heating the elements were left in a laminate mode and a well-defined pos. magenta dye image could be viewed through the transparent support.

IT **75169-59-4**
RL: USES (Uses)
(photothermog. copying materials containing, for dye image production)

RN 75169-59-4 CAPLUS

CN Carbamic acid, diphenyl-, 4-[[4-[[[3-[[[4-[2,4-bis(1,1-dimethylpropyl)phenoxy]butyl]amino]carbonyl]-4-hydroxy-1-naphthalenyl]amino]sulfonyl]phenyl]azo]-2-[(ethylamino)sulfonyl]-5-[(methylsulfonyl)amino]-1-naphthalenyl ester (9CI) (CA INDEX NAME)



L22 ANSWER 17 OF 24 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1979:430495 CAPLUS
DOCUMENT NUMBER: 91:30495
TITLE: Color diffusion-transfer photographic dye-releasing couplers
INVENTOR(S): Kobayashi, Ryuichiro; Kanbe, Masaru; Watanabe, Kazumasa; Nogami, Akira; Kunieda, Tadashi
PATENT ASSIGNEE(S): Konishiroku Photo Industry Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 28 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 53003820	A2	19780113	JP 1976-78428	19760630

PRIORITY APPLN. INFO.: JP 1976-78428 19760630
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

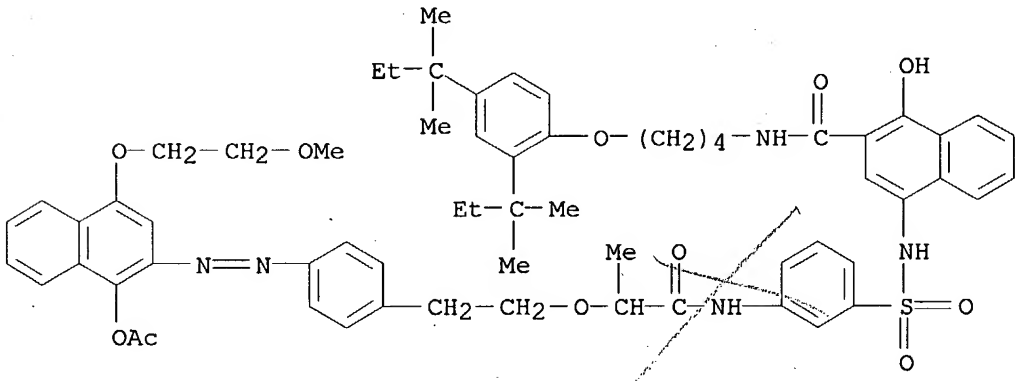
AB Diffusion-transfer color photog. materials contain dye-releasing redox couplers of the general formulas I or II [Z = divalent moiety; Z1 = methylene, imino, phenylene, O, S; Z2 = aromatic hydrocarbon moiety, aromatic heterocyclic moiety, nonarom. heterocyclic moiety containing an active methylene or methyne group, Z3N:NZ4 (Z3, Z4 = aromatic hydrocarbon moiety, arom heterocyclic moiety, nonarom. heterocyclic moiety containing active methylene or methyne group, aliphatic hydrocarbon moiety with active methylene or methyne group); R = H, halogen, monovalent moiety; R1, R2 = H, hydrocarbon moiety; R3 = halo, other monovalent moiety; R4CO = a group which is released when OH- concentration is 10-5-2 mol/L; R5 = dye moiety which is released by oxidation in alkaline medium; R6 = monovalent radical; M = (R5-H);

m, n = pos. integer, 0; m + n ≥ 1; p, q = 0, 1; r, s = pos. integer; t = 0-4; u, v = 0, 1, 2; u + v = 2; w = 0, 1; when w = 0, R = H]. Thus, a film support was coated with (1) a composition containing gelatin and styrene-N-vinylbenzyl-N,N,N-trihexylammonium chloride copolymer, (2) a gelatin-TiO2 mixture, (3) a carbon black-gelatin mixture, (4) a green-sensitive Ag(Br,I) emulsion containing the compound III (100 mg/100 cm2), and (5) gelatin to give a diffusion-transfer photog. unit which exhibited a considerably improved shelf life.

IT **70581-14-5P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 70581-14-5 CAPLUS

CN 2-Naphthalenecarboxamide, 4-[[[3-[[2-[2-[4-[[1-(acetyloxy)-4-(2-methoxyethoxy)-2-naphthalenyl]azo]phenyl]ethoxy]-1-oxopropyl]amino]phenyl]sulfonyl]amino]-N-[4-[2,4-bis(1,1-dimethylpropyl)phenoxy]butyl]-1-hydroxy- (9CI) (CA INDEX NAME)



L22 ANSWER 18 OF 24 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1979:95360 CAPLUS

DOCUMENT NUMBER: 90:95360

TITLE: A silver halide color photographic material

AUTHOR(S): Anon.

CORPORATE SOURCE: UK

SOURCE: Research Disclosure (1978), 176, 31 (No. 17613)
CODEN: RSDSBB; ISSN: 0374-4353

DOCUMENT TYPE: Journal; Patent

LANGUAGE: English

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
RD 176013		19781210		
PRIORITY APPLN. INFO.:			RD 1978-176013	19781210

AB Color photog. materials containing a colored coupler for masking purposes are described. The materials give high d. images with low fog and show good stability in bleaching solns. of high pH. Typical colored couplers used are 1-hydroxy-4-[3-[4-(1-hydroxy-3,6-disulfo-8-acetamido-2-naphthylazo)phenoxyacetamido]anilinocarboxyloxy]-N-[δ-(2,4-di-tert-amylphenoxy)butyl]-2-naphthamide di-Na salt (I) and 1-hydroxy-4-[4-[4-(1-hydroxy-3,6-disulfo-8-acetamido-2-naphthylazo)phenoxyacetamido]benzylamino carbonyloxy]-N-[δ-(2,4-di-tert-amylphenoxy)butyl]-2-naphthamide di-Na salt. Thus, a solution containing 1-hydroxy-N-[δ-(2,4-di-tert-amylphenoxy)butyl]-2-naphthamide 4, I 4 g, di-Bu phthalate 4, and EtOAc 8

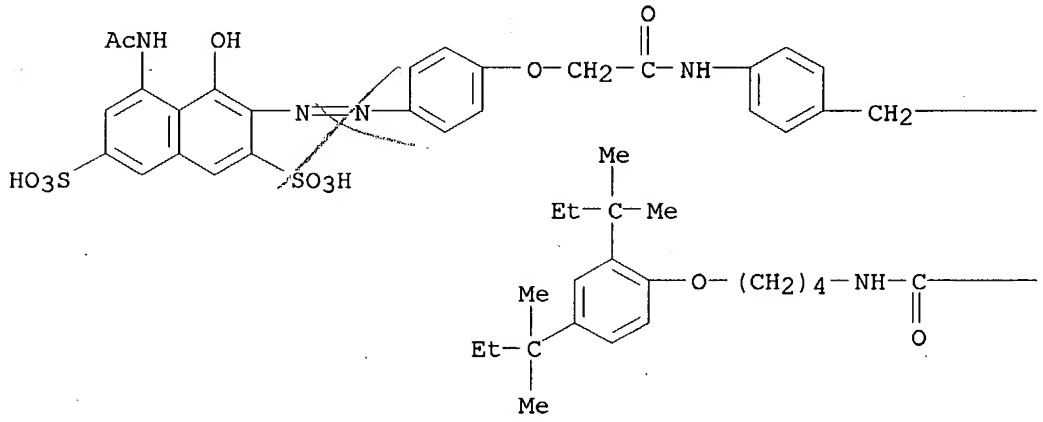
mL was mixed with 10% aqueous gelatin 2 mL and dispersed in a colloid mill. The dispersion was then added to a gelatin-Ag(Br, I) emulsion, coated on a support, dried, imagewise exposed, and developed to show a fog of 0.16, a maximum absorption wavelength of the mask of 555-70 nm, and a max d. of 1.20.

IT **69319-65-9**
RL: USES (Uses)
(photog. colored masking coupler, photog. films containing, for improved image quality)

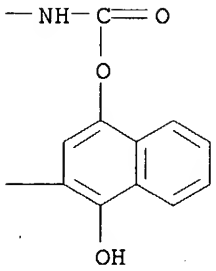
RN 69319-65-9 CAPLUS

CN 2,7-Naphthalenedisulfonic acid, 5-(acetylamino)-3-[[4-[2-[[4-[[[[[3-[[[4-[2,4-bis(1,1-dimethylpropyl)phenoxy]butyl]amino]carbonyl]-4-hydroxy-1-naphthalenyl]oxy]carbonyl]amino]methyl]phenyl]amino]-2-oxoethoxy]phenyl]azo]-4-hydroxy- (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B



L22 ANSWER 19 OF 24 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1978:538369 CAPLUS

DOCUMENT NUMBER: 89:138369

TITLE: Color photographic dye image formation

INVENTOR(S): Kojima, Tamotsu; Sato, Shui; Kikuchi, Shoji; Fujimatsu, Wataru; Ezawa, Osamu; Imamura, Hiroyuki

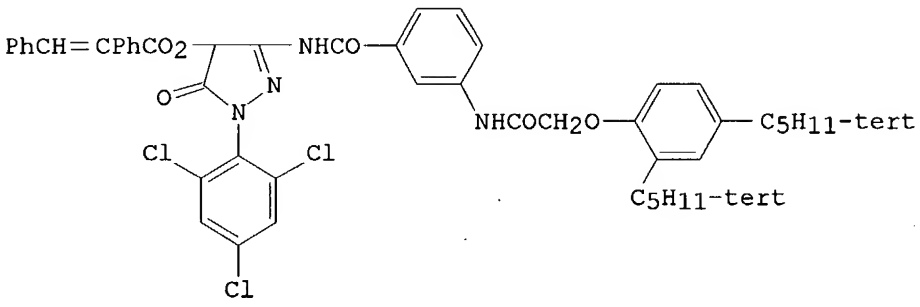
PATENT ASSIGNEE(S): Konishiroku Photo Industry Co., Ltd., Japan

10/030,061

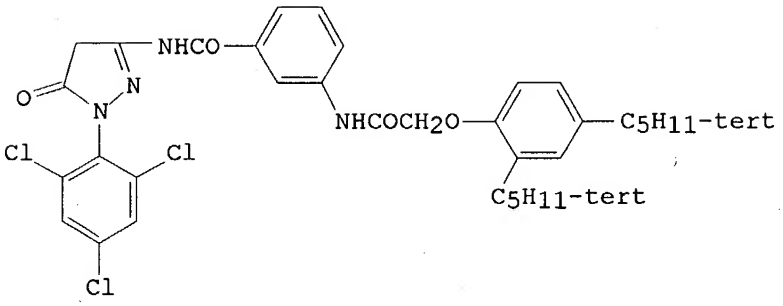
SOURCE: Jpn. Kokai Tokkyo Koho, 31 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 53039126	A2	19780410	JP 1976-114143	19760921
JP 58047704	B4	19831024		

PRIORITY APPLN. INFO.: JP 1976-114143 19760921
GI



I

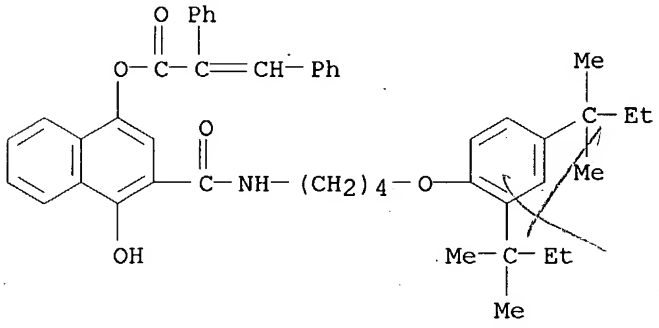


II

AB Ag halide photog. materials are imagewise exposed and developed with an aromatic primary amine-type developer in the presence of a compound of the general formula RO2CCR1:CR2R3 (R = cyan, magenta, or yellow coupler residue; R1, R2, R3 = H, halogen, a monovalent organic moiety; ≥1 of R1, R2, R3 is aryl or a heterocyclic moiety; and R3 is not Ph or substituted Ph when both R1 and R2 are H) to form dye images. The new 2-equivalent couplers exhibit an excellent coupling reaction rate, good stability, and do not cause fog or color stains. The couplers also give dye images with a high optical d. Thus, a magenta coupler I 10 g was dissolved in an HOAc-di-Bu phthalate mixture, the solution dispersed in a gelatin solution, the dispersion added to a high-sensitivity Ag(Br,I) emulsion 500 g, and the emulsion was coated on a cellulose triacetate film support to give a photog. film. The film was sensitometrically exposed and developed to give a relative sensitivity, γ, Dmax, and fog of 201, 2.30, ≥4.0, and 0.13, resp., vs. 100, 1.27, 2.2, and 0.08, resp., for a control containing the magenta coupler II. The magenta images also exhibited good resistance to light and moisture.

IT **67646-48-4**

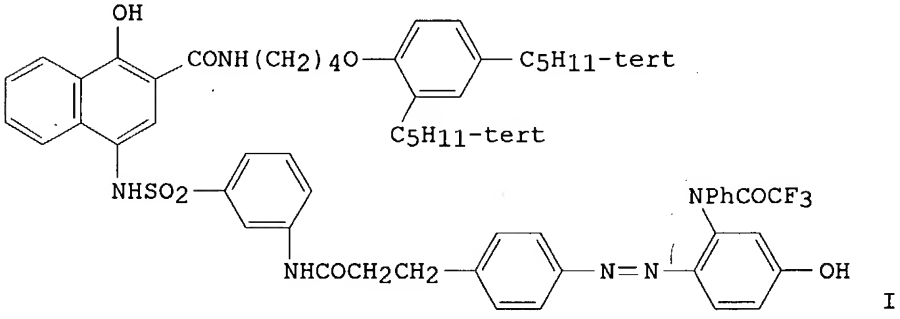
RL: USES (Uses)
(photog. two-equivalent coupler)
RN 67646-48-4 CAPLUS
CN Benzeneacetic acid, α-(phenylmethylene)-, 3-[[[4-[2,4-bis(1,1-dimethylpropyl)phenoxy]butyl]amino]carbonyl]-4-hydroxy-1-naphthalenyl ester (9CI) (CA INDEX NAME)



L22 ANSWER 20 OF 24 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1978:520788 CAPLUS
DOCUMENT NUMBER: 89:120788
TITLE: Photographic element for color diffusion transfer
INVENTOR(S): Kobayashi, Ryuichiro; Kanbe, Masaru; Mizukura, Noboru; Suginaka, Shunji; Kunieda, Naoshi
PATENT ASSIGNEE(S): Konishiroku Photo Industry Co., Ltd., Japan
SOURCE: Ger. Offen., 114 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2729823	A1	19780105	DE 1977-2729823	19770701
JP 53004544	A2	19780117	JP 1976-78777	19760702
JP 59044618	B4	19841031		
AU 504663	B1	19791025	AU 1977-26550	19770629
GB 1589831	A	19810520	GB 1977-27117	19770629
CA 1115579	A1	19820105	CA 1977-281813	19770630
FR 2356973	A1	19780127	FR 1977-20412	19770701

PRIORITY APPLN. INFO.: JP 1976-78777 19760702
GI



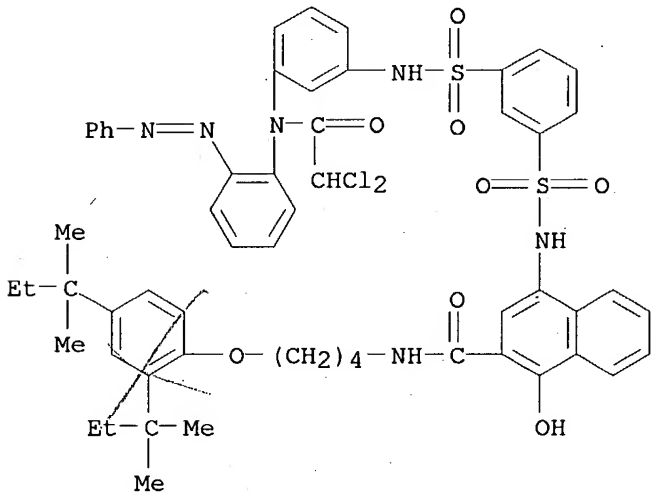
I

AB One hundred fifteen dye-releasing redox (DRR) compds. are described for use in color diffusion-transfer materials of the shift-type. The DRR compds. containing an azo dye group linked through aromatic groups and an acyl-substituted amino group. Thus, a transparent poly(ethylene terephthalate) support was coated with a blue-sensitive gelatin-Ag(I,Br) emulsion layer, a layer containing gelatin and I (8.0 mg/100 cm2), and a gelatin protective layer. This material was then exposed through a 30 step Ag wedge (d. difference of 0.15), contacted with an image-receptor sheet, and processed with an alkaline solution for 2 min to give a transfer image with a Dmax of 1.90 and a Dmin of 0.22.

IT **66861-37-8P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 66861-37-8 CAPLUS

CN 2-Naphthalenecarboxamide, N-[4-[2,4-bis(1,1-dimethylpropyl)phenoxy]butyl]-4-[[[3-[[[3-[(dichloroacetyl)[2-(phenylazo)phenyl]amino]phenyl]amino]sulfonyl]phenyl]sulfonyl]amino]-1-hydroxy- (9CI) (CA INDEX NAME)



L22 ANSWER 21 OF 24 CAPLUS COPYRIGHT 2004 ACS on STN

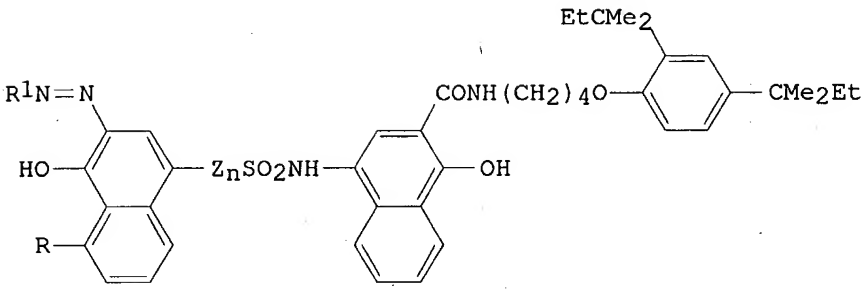
ACCESSION NUMBER: 1976:164527 CAPLUS
DOCUMENT NUMBER: 84:164527
TITLE: Sulfonamide compounds
INVENTOR(S): Eldredge, Carl H.; Haase, Jan R.; Lanholm, Richard A.
PATENT ASSIGNEE(S): Eastman Kodak Co., USA
SOURCE: Ger. Offen., 45 pp. Division of Ger. Offen. 2,406,627.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2462061	A1	19751218	DE 1974-2462061	19740212
FR 2217725	A1	19740906	FR 1973-6644	19730226
BE 796040	A1	19730827	BE 1973-128171	19730227

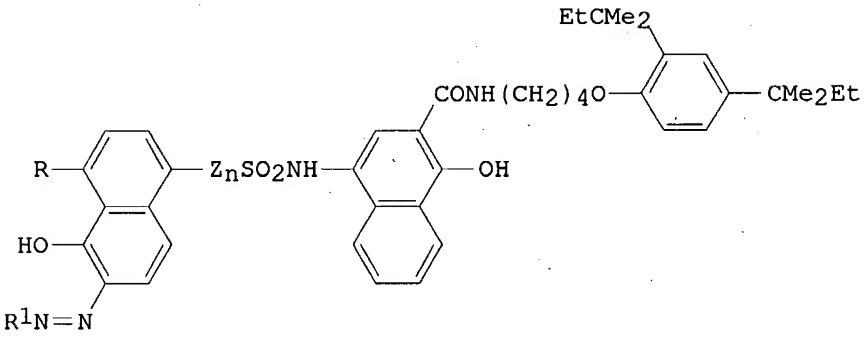
CH 588095	A	19770531	CH 1974-1853	19740211
NL 7401910	A	19740814	NL 1974-1910	19740212
JP 49114424	A2	19741031	JP 1974-17062	19740212
AU 7465489	A1	19750814	AU 1974-65489	19740212
GB 1465183	A	19770223	GB 1974-6248	19740212

PRIORITY APPLN. INFO.: US 1973-331728 19730212

GI



I



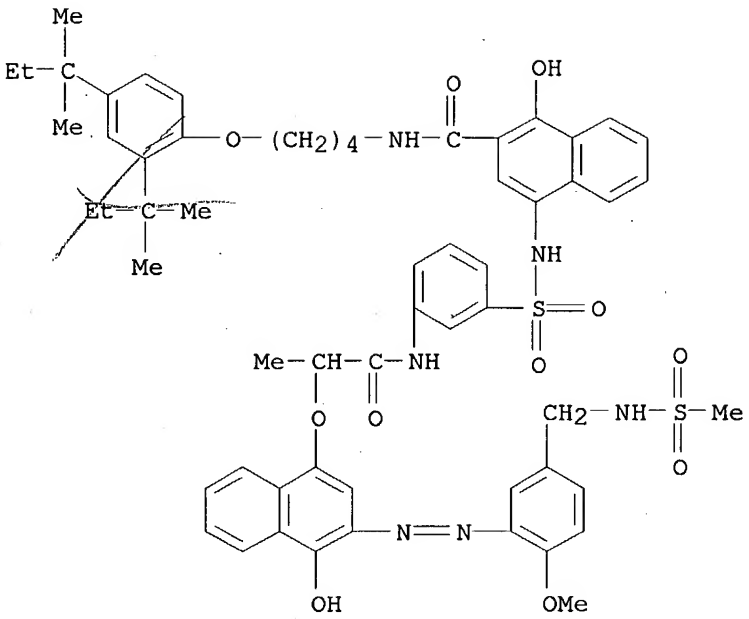
II

AB Naphthalenesulfonamides I and II [R = HO, H, AcNH, BzNH, etc.; R1 = 2-MeOC6H4, 2,5-(MeO)(H2NO2S)C6H3, substituted naphthyl, etc.; Z = 3-(O2SHN)C6H4, H2O2S(CH2)3, 3-OCHMeCONHC6H3, etc.; n = 0, 1] were prepared Thus, 1,4,2-(HO)(H2N)C10H5CONH(CH2)4OC6H3(CMe2Et)-1,4 reacted with 1,5,7,2-(HO)(ClO2S)(AcNH)C10H4N:NC6H4OMe-2 in pyridine to give II (R = AcNH, R1 = 2-MeOC6H4, n = 0). A total of 18 I and II were prepared, useful as photographic developers.

IT **54179-14-5P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 54179-14-5 CAPLUS

CN 2-Naphthalenecarboxamide, N-[4-[2,4-bis(1,1-dimethylpropyl)phenoxy]butyl]-1-hydroxy-4-[[[3-[[2-[[4-hydroxy-3-[[2-methoxy-5-[[(methylsulfonyl)amino]methyl]phenyl]azo]-1-naphthalenyl]oxy]-1-oxopropyl]amino]phenyl]sulfonyl]amino]- (9CI) (CA INDEX NAME)

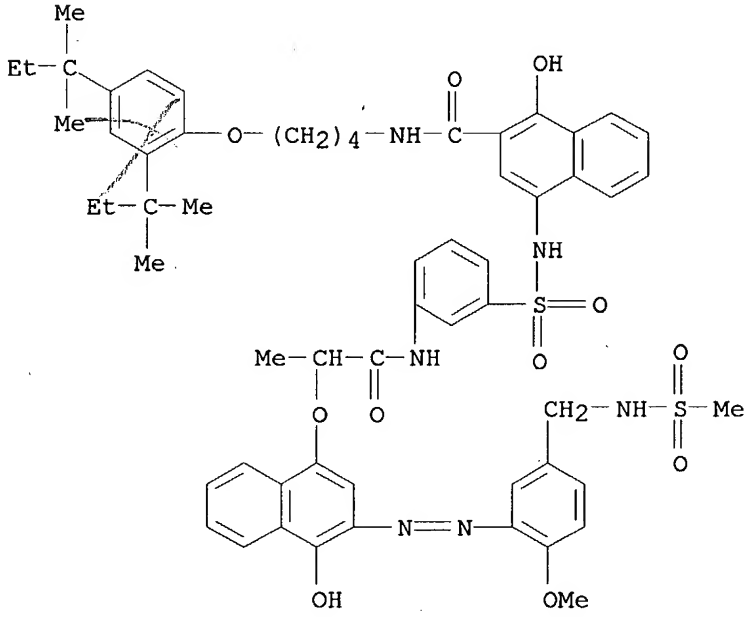


L22 ANSWER 22 OF 24 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1976:107093 CAPLUS
DOCUMENT NUMBER: 84:107093
TITLE: Magenta image-providing phenylazonaphthyl dyes
INVENTOR(S): Eldredge, Carl H.; Haase, Jan R.; Landholm, Richard A.
PATENT ASSIGNEE(S): Eastman Kodak Co., USA
SOURCE: U.S., 20 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3931144	A	19760106	US 1974-439816	19740205
FR 2217725	A1	19740906	FR 1973-6644	19730226
BE 796040	A1	19730827	BE 1973-128171	19730227
CH 588095	A	19770531	CH 1974-1853	19740211
NL 7401910	A	19740814	NL 1974-1910	19740212
JP 49114424	A2	19741031	JP 1974-17062	19740212
AU 7465489	A1	19750814	AU 1974-65489	19740212
GB 1465183	A	19770223	GB 1974-6248	19740212

PRIORITY APPLN. INFO.: US 1973-331728 19730212
GI For diagram(s), see printed CA Issue.
AB Magenta image-providing dyes I (R = AcNH, EtCONH, BzNH, MeSO2NH, OH, H; R1 = substituted phenyl and naphthyl; Z = direct bond, (CH2)3, m-C6H4SO2NH) and II (R2 = H, Ac; R3 = substituted phenyl), alkali-cleavable upon oxidation, were prepared and their photog. properties determined Thus, 4-acetamido-5-hydroxy-6-[(2-methoxyphenyl)azo]-1-naphthalenesulfonyl chloride [54178-84-6] was added to 4-amino-N-[4-(2,4-di-tert-pentylphenoxy)butyl]-1-hydroxy-2-naphthamide [42481-11-8] in dry pyridine to give I (R = AcNH, R1 = o-MeOC6H4; Z = direct bond; sulfonamide group in 1-position) [58545-91-8]. The other I were similarly prepared
IT **54179-14-5P**

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and photog. properties of)
RN 54179-14-5 CAPLUS
CN 2-Naphthalenecarboxamide, N-[4-[2,4-bis(1,1-dimethylpropyl)phenoxy]butyl]-1-hydroxy-4-[[[3-[[2-[[4-hydroxy-3-[[2-methoxy-5-[[(methylsulfonyl)amino]methyl]phenyl]azo]-1-naphthalenyl]oxy]-1-oxopropyl]amino]phenyl]sulfonyl]amino]- (9CI) (CA INDEX NAME)



L22 ANSWER 23 OF 24 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1975:113195 CAPLUS
DOCUMENT NUMBER: 82:113195
TITLE: Light-sensitive photographic recording material
INVENTOR(S): Eldrege, Carl H.; Haase, Han R.; Landholm, Richard A.
PATENT ASSIGNEE(S): Eastman Kodak Co.
SOURCE: Ger. Offen., 64 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2406627	A1	19740829	DE 1974-2406627	19740212
FR 2217725	A1	19740906	FR 1973-6644	19730226
BE 796040	A1	19730827	BE 1973-128171	19730227
CH 588095	A	19770531	CH 1974-1853	19740211
NL 7401910	A	19740814	NL 1974-1910	19740212
JP 49114424	A2	19741031	JP 1974-17062	19740212
AU 7465489	A1	19750814	AU 1974-65489	19740212
GB 1465183	A	19770223	GB 1974-6248	19740212

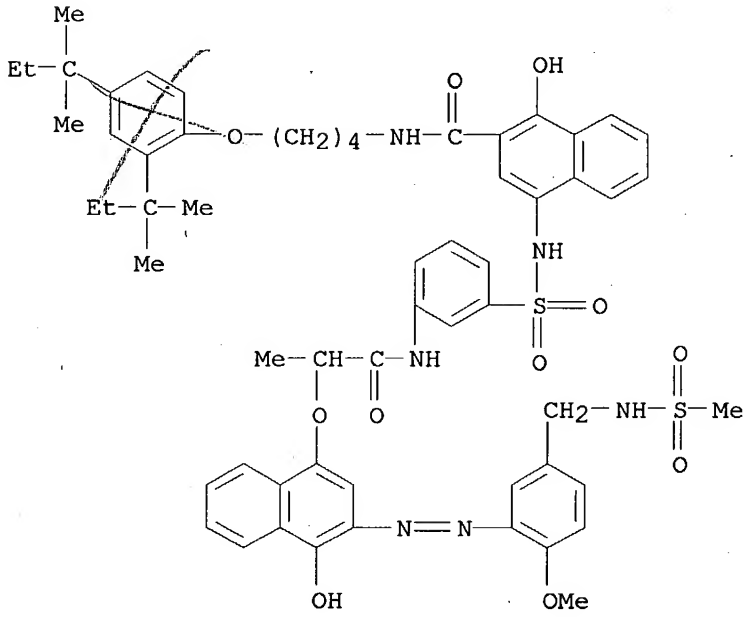
PRIORITY APPLN. INFO.: US 1973-331728 19730212
GI For diagram(s), see printed CA Issue.
AB Magenta azo dyes which contain a nondiffusible sulfonamide component and

which are rendered diffusible, after oxidation, by cleavage with alkali were prepared and used in dye diffusion transfer photog. materials. Thus, 4-acetamido-5-hydroxy-6-(2-methoxyphenylazo)-1-naphthalenesulfonyl chloride [54178-84-6] was added to a solution of 4-amino-N-[4-(2,4-di-tert-pentylphenoxy)butyl]-1-hydroxy-2-naphthamide [42481-11-8] in pyridine, stirred for 1 hr at 0°, and poured into a HCl-H2O mixture to give photog. dye (I) [54179-25-8]. Seventeen similar dyes were also prepared

IT **54179-14-5P**
RL: IMF (Industrial manufacture); PREP (Preparation)
(preparation of)

RN 54179-14-5 CAPLUS

CN 2-Naphthalenecarboxamide, N-[4-[2,4-bis(1,1-dimethylpropyl)phenoxy]butyl]-1-hydroxy-4-[[[3-[[2-[[4-hydroxy-3-[[2-methoxy-5-[[(methylsulfonyl)amino]methyl]phenyl]azo]-1-naphthalenyl]oxy]-1-oxopropyl]amino]phenyl]sulfonyl]amino]- (9CI) (CA INDEX NAME)



L22 ANSWER 24 OF 24 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1973:515384 CAPLUS

DOCUMENT NUMBER: 79:115384

TITLE: Benzofuran series. XLIX. Synthesis of aralkyl- and aryloxyalkyl(2,3-dihydro-2-benzofuryl)methylamines and related structures

AUTHOR(S): Goldenberg, C.; Wandestrick, R.; Binon, F.; Charlier, R.

CORPORATE SOURCE: Cent. Rech., S. A. Labaz N. V., Brussels, Belg.

SOURCE: Chimica Therapeutica (1973), 8(3), 259-70
CODEN: CHTPBA; ISSN: 0009-4374

DOCUMENT TYPE: Journal

LANGUAGE: French

GI For diagram(s), see printed CA Issue.

AB Benzofuran derivs. I (R = H, Cl, Br; R1 = H, OMe; R2 = H, Cl, Me, CMe3, OME, OH, OCH2Ph; R3 = H, Me, CHME2, OMe; R2R3 = OCH2O; X = C2-4 alkyl, alkoxy, alkylthio, alkylamino, alkenyl) and their 2,3-dihydro derivs. (62 compds.) were prepared by known methods. Only the 2,3-dihydro derivs. of I

(R = R1 = R3 = H, R2 = H, 4-OMe, X = CH2CH2O) had acceptable peripheral vasodilator activity.

IT **50634-79-2P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 50634-79-2 CAPLUS

CN 2-Benzofurancarboxamide, 2,3-dihydro-7-methoxy-N-(2-phenoxyethyl)- (9CI) (CA INDEX NAME)